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Attorney Docket No. ODS-26

Applicant(s) : Richard E. McNutt et al.

For : INTERACTIVE WAGERING SYSTEM WITH  
TOTALISATOR SELECTION

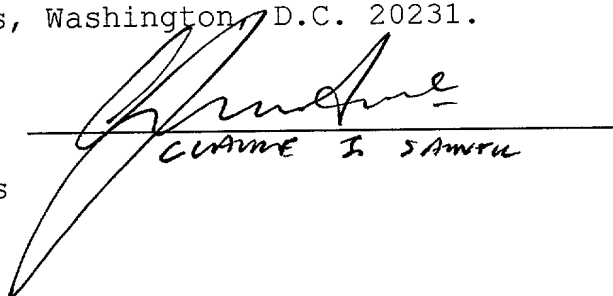
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EXPRESS MAIL CERTIFICATION

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Date of Deposit October 13, 2000.

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TRANSMITTAL LETTER FOR  
ORIGINAL PATENT APPLICATION

Sir:

Transmitted herewith for filing are the  
[X] specification; [X] claims; [X] abstract; [X] executed  
Declaration and Power of Attorney; and Information Disclosure  
Statement for the above-identified patent application.

Also transmitted herewith are:

[X] Twenty-one (21) sheets of:

[ ] Formal drawings.

[X] Informal drawings. Formal drawing will be filed  
during the pendency of this application.

☐ Certified copy(ies) of applications(s)

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from which priority is claimed.

☐ An assignment of the invention to \_\_\_\_\_

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FOR	NUMBER FILED	NUMBER EXTRA	RATE	FEE
BASIC FEE				\$ 710.00
TOTAL CLAIMS	82	- 20 = 62	X \$18 =	\$ 1116.00
INDEPENDENT CLAIMS	2	- 3 = 0	X \$80 =	\$
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS				+ \$270 = \$
TOTAL				<u>\$1,826.00</u>

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James A. Leiz  
Reg. No. 46,109  
Agent for Applicant(s)

FISH & NEAVE  
Customer No. 1473  
1251 Avenue of the Americas  
New York, New York 10020-1104  
Tel.: (212) 596-9000

# INVENTOR INFORMATION

Inventor One Given Name:: Richard E  
Family Name:: McNutt  
Postal Address Line One:: 712 Knob Court  
City:: Lafayette  
State or Province:: Colorado  
Country:: USA  
Postal or Zip Code:: 80026  
City of Residence:: Lafayette  
State or Province of Residence:: Colorado  
Country of Residence:: USA  
Citizenship Country:: USA  
Inventor Two Given Name:: Masood  
Family Name:: Garahi  
Postal Address Line One:: 2802 North Torreys Peak Drive  
City:: Superior  
State or Province:: Colorado  
Country:: USA  
Postal or Zip Code:: 80027  
City of Residence:: Superior  
State or Province of Residence:: Colorado  
Country of Residence:: USA  
Citizenship Country:: USA  
Inventor Three Given Name:: John R  
Family Name:: Hindman  
Postal Address Line One:: 1441 Midvale Avenue, Apt. 107  
City:: Los Angeles  
State or Province:: California  
Country:: USA  
Postal or Zip Code:: 90024  
City of Residence:: Los Angeles  
State or Province of Residence:: California  
Country of Residence:: USA  
Citizenship Country:: USA  
Inventor Four Given Name:: Connie T  
Family Name:: Marshall  
Postal Address Line One:: 2991 S. Woodland Road  
City:: Muskogee  
State or Province:: Oklahoma  
Country:: USA  
Postal or Zip Code:: 74401  
City of Residence:: Muskogee  
State or Province of Residence:: Oklahoma  
Country of Residence:: USA  
Citizenship Country:: USA  
Inventor Five Given Name:: Douglas V  
Family Name:: Ramsey  
Postal Address Line One:: 2034 Buchanen Point  
City:: Louisville

State or Province:: Colorado  
Country:: USA  
Postal or Zip Code:: 80027  
City of Residence:: Louisville  
State or Province of Residence:: Colorado  
Country of Residence:: USA  
Citizenship Country:: USA  
Inventor Six Given Name:: William L  
Family Name:: Thomas  
Postal Address Line One:: 11611 South 70th East Avenue  
City:: Bixby  
State or Province:: Oklahoma  
Country:: USA  
Postal or Zip Code:: 74008  
City of Residence:: Bixby  
State or Province of Residence:: Oklahoma  
Country of Residence:: USA  
Citizenship Country:: USA

#### CORRESPONDENCE INFORMATION

Correspondence Customer Number:: 1473  
Fax One:: 212-596-9090  
Electronic Mail One:: jleiz@fishneave.com

#### APPLICATION INFORMATION

Title Line One:: INTERACTIVE WAGERING SYSTEM WITH TOTALIS  
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Formal Drawings?: No  
Application Type:: Utility  
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#### REPRESENTATIVE INFORMATION

Representative Customer Number:: 1473  
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#### CONTINUITY INFORMATION

This application is a:: NON PROV. OF PROVISIONAL  
> Application One:: 60/194800  
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Source:: PrintEFS Version 1.0.1

INTERACTIVE WAGERING SYSTEM  
WITH TOTALISATOR SELECTION

5           This application claims the benefit of U.S.  
provisional application No. 60/194,800, filed  
April 5, 2000.

Background of the Invention

          This invention relates to interactive  
10   wagering systems, and more particularly, to interactive  
wagering systems in which totalisators may be selected.

          Wagering is a popular leisure activity. For  
example, many racing fans wager on events such as  
horse, dog, and harness racing. However, it may be  
15   inconvenient to attend racing events in person. Not  
all racing fans have sufficient time to visit  
racetracks as often as they would like and some fans  
have difficulties in obtaining suitable transportation  
to the track. Off-track betting establishments are  
20   available for fans who cannot attend racing events in  
person, but fans must still travel to the off-track  
betting establishments.

          As a result, interactive television wagering  
systems have been developed in which fans may place  
25   off-track wagers using set-top boxes connected to their  
televisions. Interactive wagering systems may also be

provided that allow users to wager through a personal computer or the like.

It is an object of the present invention to provide interactive wagering systems in which the  
5 totalisator systems used to handle a user's electronic wager may be selected.

#### Summary of the Invention

The present invention relates to systems and methods for providing a wagering system back office and  
10 for managing tote interaction. More particularly, the present invention relates to systems and methods for enabling wagerers to receive wagering and handicapping data, place wagers, and receive and submit any other  
15 suitable information and data. The present invention also relates to systems and methods which control the interaction of wagering systems with multiple totes.

In order to enable wagering from a wide variety of wagering platforms, such as telephones, access devices (such as computers, personal digital  
20 assistants, and portable browsers), it is desirable to provide a system that integrates these platforms with current wagering systems.

A interactive wagering system is provided in which a user at user equipment may place electronic  
25 wagers with an interactive wagering application. The wagers may be horse race wagers. The interactive wagering application may handle wagers placed at multiple totalisators. The user may be provided with an opportunity to select a desired totalisator at which  
30 to place wagers or the interactive wagering application may automatically apply tote selection criteria to

determine which of the multiple totalisators wagers are to be placed with. The user may review information on available odds and other information for each of the different totalisators. Automatic totalisator

5 selection may be based on odds, tax consequences, licensing status, pool values, bulk benefits, user preference, available wager types, or any other suitable criteria.

Further features of the invention, its nature  
10 and various advantages will be more apparent from the accompanying drawings and the following detailed description of the preferred embodiments.

#### Brief Description of the Drawings

FIG. 1 is a schematic diagram of an  
15 illustrative interactive wagering system in accordance with the present invention.

FIG. 2 is a schematic diagram of illustrative components of the transaction processing and subscription management system and other portions of  
20 the interactive wagering system of FIG. 1 in accordance with the present invention.

FIG. 3 shows an illustrative screen that may be displayed to provide the user with an interactive wagering service menu in accordance with the present  
25 invention.

FIG. 4 shows an illustrative setup options screen that may be displayed for the user in accordance with the present invention.

FIG. 5 shows an illustrative tote selection  
30 screen that may be displayed for the user to provide the user with an opportunity to select a desired



approach for selecting a totalisator in accordance with the present invention.

FIG. 6 shows an illustrative tote selection menu that may be provided for the user to allow the  
5 user to select a desired tote by name in accordance with the present invention.

FIG. 7 shows an illustrative tote selection screen that may be presented for the user when the user is selecting a desired tote based on the odds provided  
10 by each tote in accordance with the present invention.

FIG. 8 shows an illustrative track selection screen that may be displayed for the user to allow the user to select a desired racetrack for a wager in accordance with the present invention.

15 FIG. 9 shows an illustrative race selection screen that may be displayed for the user to allow the user to select a desired race for the wager in accordance with the present invention.

FIG. 10 shows an illustrative wager type  
20 selection screen that may be displayed for the user to allow the user to select a desired wager type for the wager in accordance with the present invention.

FIG. 11 shows an illustrative horse selection screen that may be displayed for the user to allow the  
25 user to select a desired horse for the wager in accordance with the present invention.

FIG. 12 shows an illustrative wager amount selection screen that may be displayed for the user to allow the user to select a desired wager amount for the  
30 wager in accordance with the present invention.

FIG. 13 shows an illustrative wager queue screen that may be displayed for the user to allow the

user to submit wagers and to perform other wagering-related functions in accordance with the present invention.

FIG. 14 shows an illustrative screen that may  
5 be displayed for the user when the user chooses to send a wager in the user's wager queue or the like in accordance with the present invention.

FIG. 15 shows an illustrative screen that may  
10 be displayed for the user to allow the user to view the current odds offered by a selected tote for each of the user's wagers in accordance with the present invention.

FIG. 16 shows another illustrative screen  
that may be displayed for the user to allow the user to view the current odds offered by a selected tote for  
15 each of the user's wagers in accordance with the present invention.

FIG. 17 is a flow chart of illustrative steps  
involved in automatically selecting a tote to use for handling the user's wagers in accordance with the  
20 present invention.

FIG. 18 is a flow chart of illustrative steps  
involved in using the interactive wagering system to support multiple-tote features in accordance with the present invention.

FIG. 19 is a flow chart of illustrative steps  
25 involved in manually and automatically selecting a desired tote to use for handling the user's wagers in accordance with the present invention.

FIG. 20 is an illustrative screen that may be  
30 displayed to provide the user with account balance information for accounts at multiple totes in accordance with the present invention.

FIG. 21 is a flow chart of illustrative steps involved in supporting cross-tote wagering pools in accordance with the present invention.

5 Detailed Description of the Preferred Embodiments

An illustrative system 10 in accordance with the present invention is shown in FIG. 1. Aspects of the invention apply to various types of interactive wagering systems. The invention is described herein  
10 primarily in the context of interactive wagering on races (e.g., horse races) for specificity and clarity.

Races may be run at racetracks 12, which may be located at various geographic locations. Races run at the racetracks may be simulcast to television  
15 viewers. For example, simulcast videos may be provided to users with satellite receivers or to off-track betting establishments via satellite.

System 10 may be used to provide an interactive wagering service to users of various user  
20 equipment. An interactive wagering application may be used to provide the wagering service. The interactive wagering application may run locally on the user equipment (e.g., on a set-top box, personal computer, electronic book, cellular telephone, handheld computing  
25 device, etc.) or may run using a client-server or distributed architecture where some of the application is implemented locally on the user equipment in the form of a client process and some of the application is implemented at a remote location (e.g., on a server  
30 computer or other such equipment in the system) as a server process. These arrangements are merely illustrative. Other suitable techniques for

implementing the interactive wagering application may be used if desired.

Real-time videos from racetracks 12 may also be provided to video production system 14 for  
5 distribution to users as part of a television wagering service (i.e., a wagering-related television channel or Internet-delivered service or the like). If desired, multiple simulcast videos may be provided to video production system 14 in real-time. Talent (e.g.,  
10 commentators) for the television wagering service provided by the interactive wagering application may be located at studio 16. Studio 16 may provide a video feed containing commentary and the like to video production system 14. Graphic overlays for the  
15 television wagering service (i.e., embedded graphics) may be added to the service at video production system 14.

The television wagering service may use video production system 14 to combine selected video segments  
20 from desired racing simulcasts with the video feed from studio 16 and suitable graphic overlays. If desired, video production system 14 or a separate facility may be used to reformat simulcasts from racetracks 12. For example, if racetracks 12 provide simulcasts as  
25 traditional analog television channels, video production system 14 (or a separate facility) may convert these simulcasts or portions of these simulcasts into digital signals (e.g., digital video signals) or into a different number of analog signals.  
30 Digital video signals may require less bandwidth than analog video signals and may be appropriate for situations in which videos are to be transmitted over

either high or low bandwidth pathways. Low bandwidth pathways may include telephone lines, the Internet, etc.

Video production system 14 may be used to  
5 provide a television wagering service that includes selected simulcast videos, video from studio 16, and graphic overlays to television distribution facilities 18 (for redistribution to user television equipment 22 and user computer equipment 20), to user computer  
10 equipment 20, and to user telephone equipment 32 (if user telephone equipment 32 has a display capable of displaying moving images). Television distribution facilities 18 may be any suitable facilities for supplying television to users, such as cable system  
15 headends, satellite systems, broadcast television systems, or other suitable systems or combinations of such systems. User computer equipment 20 may be any suitable computer equipment that supports an interactive wagering application. For example, user  
20 computer equipment 20 may be a personal computer. User computer equipment 20 may also be based on a mainframe computer, a workstation, a networked computer or computers, a laptop computer, a notebook computer, a handheld computing device such as a personal digital  
25 assistant or other small portable computer, etc. One aspect of the invention involves the use of an electronic book platform as user computer equipment 20 or part of user computer equipment 20.

Each of television distribution facilities 18  
30 is typically located at a different geographic location. Users with user television equipment 22 may receive the television wagering service from an

associated television distribution facility. User television equipment 22 may include, for example, a television or other suitable monitor. A television may be used to watch the television wagering service on a traditional analog television channel. User television equipment 22 may also include a digital or analog set-top box connected to a television distribution facility 18 by a cable path. A digital set-top box may be used to receive the television wagering service on a digital channel. If desired, user television equipment 22 may contain a satellite receiver, a WebTV box, a personal computer television (PC/TV), or hardware similar to such devices into which set-top box capabilities have been integrated. A recording device such as a videocassette recorder or digital recording device (e.g., a personal video recorder or digital video recorder based on hard disk drives or the like) may be used in user television equipment 22 to store videos. The recording device may be separate from or part of the other components of user television equipment 22.

User computer equipment 20 may receive the television wagering service using a video card or other video-capable equipment to receive analog or digital (e.g., moving picture experts group or MPEG) videos from a television distribution facility. User computer equipment 20 may also receive the television wagering service directly from video production system 14 using, for example, a modem link. If desired, the video for the television wagering service may be compressed (e.g., using MPEG techniques). This may be useful, for example, if the path to user computer equipment 20 is a modem connection using telephone links. If video

production system 14 is only used to serve user  
computer equipment 20 without traditional analog  
television capabilities, video production system 14 may  
only need to supply such digitally-compressed video  
5 signals and not analog television signals.

Video clips of races and other simulcast  
information may be provided to users in the form of a  
television wagering service or by an interactive  
wagering service provided by the interactive wagering  
10 application. If desired, race-related videos may be  
provided to the user by using video production system  
14 or other suitable equipment to route appropriate  
video clips from the simulcasts to the user in real  
time. Video clips may also be stored for later  
15 viewing. For example, one or more video servers  
located at racetracks 12, video production system 14,  
television distribution facilities 18, or other  
suitable locations may be used to store video clips.  
The stored videos may then be played back in real time  
20 or downloaded for viewing at user television equipment  
22, user computer equipment 20, or user telephone  
equipment 32. The video clips may contain videos of  
races, commentary, interviews with jockeys, or any  
other suitable race-related information. If desired,  
25 real-time or stored videos may be provided from  
racetracks 12 directly to user television equipment 22,  
user computer equipment 20, or user telephone equipment  
32 over the Internet or other suitable communications  
paths without involving video production system 14.  
30 Videos may also be provided by routing video signals  
through equipment located elsewhere in system 10. For

example, videos may be routed through transaction processing and subscription management system 24.

Transaction processing and subscription management system 24 may contain computer equipment 26  
5 and other equipment for supporting system functions such as transaction processing (e.g., handling tasks related to wagers, product purchasing, adjusting the amount of funds in user accounts based on the outcomes of wagers, video clip ordering, etc.), data  
10 distribution (e.g., for distributing racing data to the users), and subscriber management (e.g., features related to opening an account for a user, closing an account, allowing a user to add or withdraw funds from an account, changing the user's address or personal  
15 identification number, etc.). Databases within transaction processing and subscription management system 24 or associated with system 24 may be used to store racing data, wagering data and other transaction data, and subscriber data such as such as information  
20 on the user's current account balance, past wagering history, individual wager limits, personal identification number, billing addresses, credit card numbers, bank account numbers, social security numbers, etc. Using such databases may allow the user to access  
25 information more quickly and allows for central administration of the wagering service.

If desired, racing videos and other services may be provided using servers and other equipment located at transaction processing and subscription  
30 management system 24. For example, video clips may be provided to the user on-demand. Interactive advertisements may be provided to the user. When the



user selects a desired advertisement, transaction processing and subscription management system 24 may provide additional information or other services related to the advertisement to the user.

5           Product ordering services may be implemented using computer equipment at transaction processing and subscriber management system 24 to handle orders and to assist in adjusting the appropriate account of the user accordingly. Orders may be fulfilled using merchandise  
10 fulfillment facilities 34. Merchandise fulfillment facilities 34 may be operated solely to provide merchandise fulfillment or may be associated with independently-operated mail-order or on-line businesses. Similar facilities may be used to allow  
15 users to order services.

Statistical racing data such as the post times for each race, jockey names, runner names and the number of races associated with each track, handicapping information (e.g., information on past  
20 performances such as the number of wins and losses for the past year, etc.), and weather conditions at various tracks may be provided by racing data collection and processing system 28. Some of the data may be collected from racetracks 12 and some may be provided  
25 by third party information sources such as Axcis Pocket Information Network, Inc. of Santa Clara, California or other suitable data sources.

Racing data may also be provided from totalisators 30. Totalisators 30 are the computer  
30 systems that may be used to handle wagers made at the racetracks, made at off-track betting establishments, and made using interactive wagering system 10.

Totalisators 30 generate wagering odds in real time. Totalisators 30 generate these odds based on information on which wagers are being placed (e.g., based on information on which wagers are being placed  
5 on races at racetracks 12). Totalisators 30 are available from companies such as Amtote International, Inc. of Hunt Valley, Maryland. Totalisators 30 may be associated with individual racetracks 12 or groups of racetracks 12. Totalisators 30 may communicate with  
10 one another using a communication protocol known as the Intertote Track System Protocol (ITSP). This allows totalisators 30 to share wagering pools. Totalisators 30 may provide racing data including information on the current races at racetracks 12, the number of races  
15 associated with each racetrack, win, place, and show odds and pool totals for each horse or other runner, and exacta, trifecta, and quinella payoff predictions and pool totals for every possible combination of runners. Totalisators 30 may also provide current odds  
20 and other real-time racing data for other types of wagers. Totalisators 30 may provide the time until post time for each race.

Totalisators 30 may provide race results, such as the order-of-finish list for at least the first  
25 three positions and payoff values versus a standard wager amount for win, place, and show, for each runner in the finish list. Payoff values may be provided for winning complex wager types such as exacta, trifecta, quinella, pick-n (where n is the number of races  
30 involved in the pick-n wager), and daily double. The payoff values may be accompanied by a synopsis of the associated finish list.

Totalisators 30 may also provide program information of the type typically provided in printed racing programs. Such program information may include early odds, early scratches, race descriptions  
5 (including the distance of each race and the race surface - grass, dirt, artificial turf, etc.), allowed class ratings (based on a fixed ratio of external criteria), purse value (payoff to winning runner), allowed age range of runners, and the allowed number of  
10 wins and starts for each runner.

If desired, some of the information provided to transaction processing and subscription management system 24 by totalisators 30 (such as the program information or other suitable racing data) may be  
15 provided by racing data collection and processing system 28. Similarly, some of the information provided to transaction processing and subscription management system 24 by racing data collection and processing system 28 may be provided by totalisators 30.  
20 Moreover, the foregoing examples of different suitable types of racing data are merely illustrative. Any suitable data related to racing may be provided to transaction processing and subscription management system 24 if desired.

25 Transaction processing and subscription management system 24 provides the racing data to users at user television equipment 22, user computer equipment 20, and user telephone equipment 32 for use in following race results and developing wagers. If  
30 desired, racing data may be provided to users using paths that do not directly involve transaction processing and subscription management system 24. For

example, racing data may be provided from racing data collection and processing system 28 to user television equipment 22, user computer equipment 20, or user telephone equipment 32 using the Internet or other  
5 suitable communications paths.

User telephone equipment 32 may be a conventional telephone, a cordless telephone, a cellular telephone or other portable wireless telephone, or any other suitable telephone equipment.  
10 Users at user television equipment 22 and user computer equipment 20 may view information on the racing data on a television or other suitable monitor. Users at user telephone equipment 32 may listen to racing data using an interactive voice system. User telephone equipment  
15 32 may be based on cellular telephones with displays. Users may view racing data displayed on such displays.

Users who wish to place wagers may establish an account at transaction processing and subscription management system 24. One or more accounts may also be  
20 established at totalisators 30. The user and the interactive wagering services may have their own bank accounts at financial institutions 38. A user may set up an account electronically by using user television equipment 22, user computer equipment 20, or user  
25 telephone equipment 32 to interact with the subscriber management functions of transaction processing and subscription management system 24. If desired, accounts may be established with the interactive wagering service with the assistance of customer  
30 service representatives at customer service facility 36. Customer service facility 36 may be at the same location as transaction processing and subscription

management system 24, may be part of system 24, or may be located remote from system 24. Customer service representatives at customer service facility 36 may be reached by telephone. If user telephone equipment 32  
5 is used to access the interactive wagering service, for example, user telephone equipment 32 may be used to reach the customer service representative using communications path 42. If user television equipment 22 or user computer equipment 20 is being used with the  
10 service, a telephone at the same location as that equipment may be used to reach the customer service representative.

The user's identity may be checked using social security number information or other  
15 identification information with the assistance of subscriber verification facility 40. The services of subscriber verification facility 40 are used to ensure that the user lives in a geographic area in which wagering is legal, that the user is of a legal age, and  
20 that the identification information (e.g., the user's social security number) matches the name provided by the user. If the user is using a cellular telephone or handheld computing device, the user's present physical location may be determined by determining which general  
25 part of the cellular telephone network is being accessed by the user or by using the cellular network or a handset-based location device such as a global positioning system (GPS) receiver in the body of the cellular telephone to pinpoint the user's location.  
30 This location information may be used to verify that the user is located in a geographic area where wagering is legal.

In a typical enrollment process, the user provides personal information to the interactive wagering service and provides funds with a credit card or funds from the user's bank account. The interactive  
5 wagering service sets up an account for the user at transaction processing and subscription management system 24 and directs one of totalisators 30 to set up a new account for the user at the totalisator. The totalisator is also directed to credit the user's  
10 account to reflect the amount of funds provided by the user. After the user places a wager and wins or loses, the totalisator adjusts the user's totalisator account to reflect the outcome of the wager. The totalisator may periodically inform the interactive wagering  
15 service of the adjusted balance in the user's account. This may be accomplished using any suitable technique (e.g., periodically, continuously, on-request, etc.). For example, reports may be collected periodically (e.g., once a day in an end-of-day report) and provided  
20 to the interactive wagering service to reconcile the account balances at transaction processing and subscription management system 24 with the account balances at totalisators 30.

If the user makes a balance inquiry, the  
25 inquiry may be passed to the appropriate totalisator by transaction processing and subscription management system 24. If the user is charged a fee for subscribing to the service, the service may debit the fee from the user's account at the transaction  
30 processing and subscription management system 24.

The accounts at totalisators 30 and transaction processing and subscription management

system 24 are typically maintained separately, because the business entities that operate totalisators 30 and transaction processing and subscription management system 24 are independent. If desired, financial functions related to opening and maintaining user accounts and the like may be handled using computer equipment at another location such as one of financial institutions 38 or other location remote from totalisators 30 and system 24. Such financial functions may also be implemented primarily at a totalisator 30 or primarily at the transaction processing and subscription management system 24 if desired.

Users at user television equipment 22, user computer equipment 20, and user telephone equipment 32 may place wagers by providing wagering data and otherwise interacting with transaction processing and subscription management system 24. The interactive wagering service may provide a user at user television equipment 22, user computer equipment 20, or user telephone equipment 32 that has display capabilities with screens containing various racing data. For example, the user may be presented with screens that allow the user to view the current odds for horses in an upcoming race at a given track.

The service may provide the user with interactive screens containing menus and selectable options that allow the user to select a desired racetrack and race on which to wager. The user may also specify the type of wager in which the user is interested, the desired wager amount, and the horse(s) for the wager. When the user has finished creating the

wager, the wager may be submitted to transaction processing and subscription management system 24 for processing.

5 The user may make selections during the creation and placing of wagers using various arrangements. With an electronic book arrangement, for example, the user may press dedicated buttons on the electronic book or may select on-screen options by touch or by using handwriting recognition. With a set-  
10 top box arrangement, the user may use a remote control or wireless keyboard to navigate the various menus and selectable options. With a personal computer, the user may use a keyboard, mouse, trackball, touch pad, or other suitable input or pointing device. With a  
15 cellular telephone with a display, the user may use buttons on the telephone. When the user has made appropriate selections to define a desired wager, the user television equipment, user computer equipment, or user telephone equipment may transmit wagering data for  
20 the wager to transaction processing and subscription management system 24.

Users with telephones may also interact with the service using an interactive voice response system located at transaction processing and subscription  
25 management system 24. The interactive voice response system may present menu options to the user in the form of audio prompts (e.g., "press 1 to select a \$2 wager amount," etc.). The user may interact with the service by pressing the corresponding buttons on a touch tone  
30 telephone. User telephone equipment 32 that is based on cellular telephones allows the user to interact with the wagering service in this way. User telephone



equipment 32 that is based on cellular telephones with messaging and display capabilities also allows the user to interact visually with the interactive wagering service.

5           The components of system 10 may be interconnected using various communications paths 44. Communications paths 44 may include satellite paths, coaxial cable paths, fiber-optic paths, twisted pair paths, other wire or cable-based links, wireless paths  
10 through free space, or any other suitable paths or combination of such paths. Communications over paths 44 may involve analog transmissions, digital transmissions, wireless transmissions, microwave transmissions, radio-frequency transmissions, optical  
15 transmissions, audio transmissions, or any other suitable type of transmissions or combination of such transmissions. Communications may involve Internet transmissions, private network transmissions, packet-based transmissions, television channel transmissions,  
20 transmissions in the vertical blanking interval of a television channel or on a television sideband, MPEG transmissions, etc. Communications may involve wireless pager or other messaging transmissions. Communications paths 44 may include cable connected to  
25 cable modems, digital subscriber lines, integrated services digital network (ISDN) lines, or any other suitable paths. Examples of suitable communications paths are described below. Those examples are, however, merely illustrative. Any of the  
30 communications path arrangements described above or other suitable arrangements may be used if desired.

Communications paths that carry video and particularly uncompressed analog video or lightly-compressed or full-screen digital video generally use more bandwidth than communications paths that carry only data or that carry partial-screen digital video. For example, if it is desired to transmit high-quality simulcasts of races from racetracks 12 to video production system 14, analog or digital videos may be transmitted from racetracks 12 to video production system 14 over path 44a using satellite links. Video may be transmitted from studio 16 to video production system 14 over path 44b using a satellite link or a high-speed terrestrial path such as a fiber-optic path. Studio 16 may also be located at the same site as video production system 14, thereby avoiding the need for a long-haul transmission path. Videos may be transmitted from video production system 14 to user computer equipment 20 over path 14c using a modem link (using, for example, a digital subscriber line, a telephone network link, a wireless link etc.) The modem link may be made over a private network.

A user with a cable modem may connect a personal computer or other user computer equipment 20 to an associated cable system headend using path 44d. (The headend in such an arrangement would be one of the television distribution facilities 18 shown in FIG. 1.) The user may then receive videos from the headend via cable modem. Videos may be provided to the headend over path 44e using a network link, fiber optic links, cable links, microwave links, satellite links, etc. A user with a set-top box or similar device (shown in FIG. 1 as user television equipment 22) may also

receive videos from a cable system headend using a cable modem or other such communications device over path 44f. In addition, a user with user television equipment may receive videos over the Internet or a  
5 private network using a telephone-based modem or other such communications device using path 44g. In a system with distributed processing, interactive wagering services may be provided using a television distribution facility 18 that includes equipment that  
10 supplements or replaces at least some of the equipment at transaction processing and subscription management system 24.

If desired, user television equipment 22 or user computer equipment 20 may receive analog or  
15 digital videos from an associated television distribution facility over the communications paths normally used to distribute television programming (e.g., paths 44f and 44d). For example, videos may be received as part of a dedicated interactive wagering  
20 service television channel. If videos are provided as digital signals (e.g., MPEG signals), 10 or more digital videos may be carried on a single analog channel (or one digital video may be carried on one-tenth of the bandwidth of an analog channel). If the  
25 videos are not full-screen videos, even more videos may be simultaneously provided without a loss of image quality.

Racing videos may be provided to user telephone equipment 32 over a partially-wireless  
30 telephone Internet link or other telephone link using path 44n.

If desired, racing data may accompany the racing videos along any of these paths. Moreover, racing videos may be provided by routing them directly from racetracks 12 to user television equipment 22, 5 user computer equipment 20 (e.g., over the Internet or a private network, etc.), or user telephone equipment 32. Racing videos may also be provided by routing them through transaction processing and subscription management system 24. If a cellular telephone or 10 portable computing device has sufficient display capabilities to support moving images, racing videos may be displayed. Such videos may be provided using any suitable path, such as a direct path from racetracks 12, a path through video production system 15 14 or other suitable video processing equipment, through a hub such as transaction processing and subscription management system 24, etc. Racing videos may be provided in real time or may be recorded for later distribution. Videos that are not provided in 20 real-time may be downloaded by user television equipment 22, user computer equipment 20, a cellular telephone, or other suitable user equipment at a lower data rate than would otherwise be required and may be downloaded in the background if desired. Such videos 25 may also be provided to the user at real-time video rates for direct viewing by the user.

Racing data and other information related to the interactive wagering service may be provided to users over paths connected to transaction processing 30 and subscription management system 24. For example, racing data and other data for the service may be provided to user computer equipment 20 over path 44h

using a modem link. Path 44h may be a private network path or an Internet path. Path 44h may use telephone lines, digital subscriber lines, ISDN lines, wireless data paths, or any other suitable type of

5 communications links. User television equipment 22 may receive data for the wagering service over communications path 44i, which may be a telephone line, digital subscriber line, ISDN line, or other suitable type of communications path and which may use a private

10 network path or an Internet path, etc.

Data for the wagering service may be provided to users of the interactive wagering application via communications path 44j and paths 44f and 44d. Communications path 44j may be provided over a private

15 network, using the public telephone network, using satellite links, or any other suitable type of links. Data from paths such as path 44j may be routed to paths such as paths 44f and 44d directly by associated television distribution facilities 18, or may be

20 buffered at television distribution facilities 18 if desired. Paths 44f and 44d may include coaxial cable and use of paths 44f and 44d may involve the use of cable modems or the like. If data is provided over path 44j and path 44f or path 44d using an Internet

25 protocol, a web browser or similar software running on user television equipment 22 or user computer equipment 20 may be used to access the data. Such software may be integrated into the interactive wagering application or may be used separately. Software may also be used

30 to view videos and may be used on other platforms (e.g., advanced cellular telephones) if desired.

The communications paths 44k that are used to connect various other components of the system typically do not carry high-bandwidth video signals. Accordingly, paths 44k may be telephone-like paths that  
5 are part of the Internet or a private network. Such paths and various other paths 44 may be dedicated connections for security, reliability, and economy.

User telephone equipment 32 may receive information for the wagering service via path 44m. If  
10 user telephone equipment 32 is a standard (non-cellular) telephone, such information may be in the form of audio prompts ("press 1 to place a wager") and audio racing data ("the current win odds for horse 2 are 5-1"). Transaction data processing and  
15 subscription management system 24 may contain interactive voice response equipment that provides such information to the user and that responds to touch-tone signals from the user when the user responds to prompts by pressing buttons on the user's telephone.

20 If user telephone equipment 32 is a cellular telephone, racing data and other information for the interactive wagering service may be provided to the user by using a cellular wireless connection as part of path 44m. Users with cellular telephones may be  
25 provided with audio prompts using an interactive voice response system located at transaction processing and subscription management system 24 to which the users may respond by pressing cellular telephone buttons to generate touch-tone signals.

30 Racing data and other information for the interactive wagering service may be provided to cellular telephones in the form of alphanumeric

messages. Such messages may be transmitted to the user by using paging or other alphanumeric messaging formats or any other suitable data communications scheme. If desired, data may be provided to the cellular  
5 telephones over the voice channel and decoded by the cellular telephone using modem circuitry or other suitable circuitry. Data may also be provided using any other suitable cellular or wireless path. Regardless of the way in which racing data and other  
10 information for the interactive wagering service are provided to the cellular telephone, such information may be provided to the user by displaying it on the cellular telephone display screen or by presenting it in audible form through the speaker of the cellular  
15 telephone.

Racing data and other interactive wagering service information for the users may be provided in one or more continuous data streams, may be provided periodically (e.g., once per hour or once per day), or  
20 may be provided using a client-server arrangement in which data is requested by a client processor (e.g., user television equipment 22, user computer equipment 20, user telephone equipment 32, or any other such equipment) from a server (e.g., a server implemented  
25 using computer equipment 26 at transaction processing and subscription management system 24 or computer equipment at another suitable location). Videos may also be provided using any of these techniques.

A return communications path between the user  
30 and the interactive wagering service may be used to allow the user to place wagers and otherwise interact with the interactive wagering service. For example, a

user with a standard telephone or a cellular telephone may interact with the service by pressing touch-tone keys on the telephone in response to audio prompts provided by an interactive voice response system at transaction processing and subscription management system 24. If desired, users may call customer service representatives at customer service facility 36 and place wagers with manual assistance. The user of a cellular telephone may interact with the wagering service by selecting menu options and otherwise interacting with information displayed on the cellular telephone. When a selection is made, software implemented on the telephone may be used to assist the user in transmitting appropriate data (e.g., wagering data) to the wagering service. Such data may be transmitted using any suitable technique. For example, data may be transmitted using a wireless data link that is separate from the cellular voice channels. Data may also be transmitted over the voice channel (e.g., using a modem built into the cellular telephone, by automatically generating touch-tone signals that may be recognized by the interactive voice response system at transaction processing and subscription management system 24, or using any other suitable arrangement). These approaches may be used even if the user receives racing data and other information for the service using a platform other than a telephone-based platform.

Users with user television equipment 22 may interact with the service by sending data (e.g., wager data) to transaction processing and subscription management system 24 using path 44i or using paths 44f and 44j. Users with user computer equipment 20 may



send data (e.g., wager data) to transaction processing and subscription management system 24 via path 44h or paths 44d and 44j. Users at any user equipment may send data for the service to locations other than  
5 transaction processing and subscription management system 24. For example, the user may provide information directly to customer service facility 36, etc.

If desired, the user may send data to the  
10 service at transaction processing and subscription management system 24 using different paths than those used to receive data from transaction processing and subscription management system 24. For example, racing data may be received at user television equipment 22  
15 via paths 44j and 44f, whereas data may be sent by the user from user television equipment 22 to transaction processing and subscription management system 24 using path 44i, etc. Moreover, the paths used to receive certain video information may be different from those  
20 used to receive racing data. For example, user television equipment 22 may receive racing videos using path 44f, but may receive racing data using path 44i. These examples are merely illustrative. Any suitable combination of paths may be used to distribute racing  
25 data and other information for the interactive wagering service, any suitable combination of paths may be used to receive videos, and any suitable combination of paths may be used to send data to the wagering service.

If desired, the user may interact with the  
30 wagering service using more than one platform. For example, the user may place a wager using a cellular telephone while the user is driving home. When the

user arrives home, the user may determine the outcome of the wager by watching a video of the race on user television equipment. Later in the day, the user may check the user's account balance using a personal  
5 computer. This is merely an illustrative example. The various wagering platforms may be used in any suitable combination.

Although system 10 has been described in the context of a system that supports multiple wagering  
10 platforms, system 10 may support fewer platforms if desired. For example, aspects of the invention may be implemented using a system 10 that only supports wagering from set-top boxes. If desired, system 10 may be configured so that it does not support wagering with  
15 telephone or computer equipment. The system may support electronic books, personal computers, cellular telephones and/or handheld computing devices such as personal digital assistants, palm-sized computers, etc. in combination with any other suitable platforms.

20 The features of the present invention are described herein primarily in the context of an interactive wagering application implemented on user equipment such as a set-top box connected to a television. This is only illustrative. An interactive  
25 wagering application implemented on any suitable platform (user computer equipment, user television equipment, user telephone equipment, etc.) may be used to provide such features if desired. In set-top box arrangements, on-screen options may be made larger than  
30 they appear in computer-based arrangements to accommodate the greater viewing distance from which televisions are typically operated. Options may be

selected by highlighting them using remote control  
arrow keys and by pressing an appropriate key such as  
an OK or enter or select key. In personal computer  
arrangements, on-screen options may be selected by  
5 clicking on a desired link or option using a mouse or  
other pointing device. In cellular telephone  
arrangements and handheld computer arrangements,  
options and information may be displayed using smaller  
screens than are typically available on personal  
10 computer or set-top box arrangements. To accommodate  
the smaller screen size, options that might otherwise  
be presented on a single screen may be displayed using  
multiple screens or layered menus. Options may be  
selected by highlighting them using navigation keys and  
15 pressing an appropriate select button on the cellular  
telephone or handheld computing device or by using a  
pen-based interface or the like.

As shown in FIG. 2, transaction processing  
and subscription management system 24 may form a  
20 wagering data hub that connects various platforms  
through a wide area network 104 to multiple totes 30.  
Wide area network 104 may be any suitable data  
communication network, such as a frame relay network,  
the Internet, or any other suitable communications  
25 network or communications paths. Totes 30 may be tote  
computers (also referred to as totalizers or  
totalisators) associated with various tote companies.

Transaction processing and subscription  
management system 24 and its associated computer  
30 equipment 26 (FIG. 1) may include a gateway interface  
110, a data distribution system 112, a database 114, an  
interactive voice response system server 116, an on-

line system server 122, a satellite system server 128, a cable system server 134, transaction logging equipment 142, a database 144, a subscriber management system 146, and computer networks 148 and 150.

- 5 Computer networks 148 and 150 may be used to connect data distribution system 112, interactive voice response system 116, on-line system server 122, satellite system server 128, cable system server 134, transaction logging device 142, database 144, and
- 10 subscriber management system 146 to gateway interface 110. Computer networks 148 and 150 may each be dedicated to passing a specific type of data, may be dedicated to passing data in a specific direction, may be used for primary or backup roles, or may be used for
- 15 any combination of such tasks. For example, network 148 may be used to deliver handicapping data and network 150 may be used to deliver wager data when both networks are operating and the loads on the networks are relatively balanced. However, when one network
- 20 fails or becomes heavily loaded, some or all of the data on that network may be transferred to the other network. Networks 148 and 150 may be any suitable computer networks (e.g., Ethernet networks), and may be capable of sustaining high-speed data transfer rates.
- 25 If desired, a single network or more than two networks may be used to support communications between the components of FIG. 2.

Data distribution system 112 and database 114 may be used in transaction processing and subscription

30 management system 24 to store and distribute data relating to handicapping, wagers that have been placed, account balances, user preferences and default

settings, user information, and other suitable data.  
Data distribution systems 112 and database 114 may be  
implemented using any suitable computer and database  
and may be implemented using a single device or using  
5 multiple devices.

Interactive voice response system server 116  
may be any suitable device for presenting audible  
prompts (preferably in recorded or synthesized voice)  
to users and for receiving responses from the users  
10 through voice or telephone key depressions (e.g., using  
touch-tone or dual-tone multifrequency (DTMF) signals).  
Server 116 may be connected to telephones 120 through  
telephone network 118. Telephone network 118 and  
telephones 120 may be any suitable devices for  
15 communicating acoustically (i.e., using audio  
information) (at least in part) with users. For  
example, network 118 may be a traditional telephone  
network, a cellular telephone network, a radio network,  
or any other suitable communication network.  
20 Telephones 120 may be touch-tone telephones, rotary  
telephones, pay telephones, cellular telephones, hand-  
held radios, or any other suitable communication  
devices.

On-line system server 122 may be used to  
25 allow users using access devices 126 (such as personal  
computers, personal digital assistants, or portable  
browsers) to receive wager and handicapping information  
and to place wagers. Access devices 126 may connect to  
on-line system server 122 through a computer network  
30 124. Network 124 may be any suitable computer network,  
such as a private wagering network, a public network  
like the Internet, etc.

Satellite system server 128 may allow users using satellite receivers or satellite system integrated receiver decoders 132 to receive wager and handicapping information and to place wagers.

- 5 Satellite receivers 132 may be connected to satellite system server 128 through satellite systems 130 and telephone networks 152, although telephone networks 152 may be omitted when satellite systems 130 support two-way communications. Satellite systems 130 may be any  
10 suitable satellite or wireless television system, such as DirecTV, Dish TV, etc. Telephone network 152 may be any suitable network for communicating data from integrated receiver decoders 132 to satellite system server 128, including telephone networks, data  
15 subscriber lines, the Internet, etc.

- Cable system server 134 may allow users using set-top boxes 138 to receive wagering information and handicapping information and to place wagers. Set-top boxes 138 may be connected to cable system server 134  
20 through cable headends 136 and telephone networks 140. If desired, telephone network 140 may be omitted when cable headends 136 and set-top boxes 138 support two-way communications. Cable headends 136 may be any suitable cable-system-based or telephone-system-based  
25 television distribution system. Telephone network 140 may be any suitable network for communicating data from set-top boxes 138 to cable system server 134, including telephone networks, data subscriber lines, the Internet, etc.

- 30 Transaction logging device 142 may be any suitable device for monitoring and logging transactions such as wagers, information requests, and any other

desired information on networks 148 and 150. Device 142 may be a computer that listens for data on the networks, translates that data to an understandable format, and records that data on a computer disk drive  
5 or tape, or may be any other suitable equipment.

Database 144 may be any suitable database for direct access by other components of hub 102. Database 144 may be implemented with a general purpose computer using database software or in dedicated database  
10 equipment.

Subscriber management system 146 may be any suitable equipment for registering users, tracking user behavior, and accounting for the wins, losses, and balance of users. For example, system 146 may include  
15 equipment for processing credit card transactions, check transactions, wire money transfers, etc., and may include one or more operators who communicate with users to setup the user accounts. Subscriber management system 146 may also be configured to  
20 communicate with external facilities to perform these functions. For example, subscriber management system 146 may communicate with subscriber verification facilities such as subscriber verification facility 40 of FIG. 1, may communicate with financial institutions  
25 such as financial institutions 38 of FIG. 1, and may communicate with customer service facilities such as customer service facility 36 of FIG. 1.

Servers 116, 122, 128, and 134 may use communications software that allows the servers to  
30 communicate with totes 30, data distribution system 112, transaction logging device 142, database 144, subscriber management system 146. Such communications

software may also be used to support communications between servers 116, 122, 128, and 134.

Illustrative software and functions that may be implemented on the equipment of transaction processing and subscription management system 24 and the other components of system 10 are described in Marshall et al. U.S. Patent Application No. 09/330,651, filed June 11, 1999, which is hereby incorporated by reference herein in its entirety.

10           The interactive wagering application implemented on system 10 may be implemented using application software that runs primarily on user television equipment such as user television equipment 22 of FIG. 1, user computer equipment such as user  
15   computer equipment 20 of FIG. 1, user telephone equipment such as user telephone equipment 32 of FIG. 1, or any other suitable local platform, or that runs using a remote server or other computer that is accessed from the local platform. Arrangements in  
20   which interactive wagering services are implemented using software on remote computers that is accessed on-demand from local platforms may be referred to as client-server arrangements. Such client-server arrangements may be used to allow client processes set-  
25   top boxes or other platforms to access server processes running on servers located at cable system headends or other television distribution facilities 18 (FIG. 1). Regardless of the type of system architecture or platform used, the software that supports the  
30   interactive wagering service features described herein may be referred to as an interactive wagering application.



In a set-top box or satellite receiver environment, the system may allow the user to launch an interactive wagering application by selecting a menu option in an interactive television program guide or  
5 other set-top box application or menu. If desired, the interactive wagering application (or other application) may be launched automatically whenever the user tunes to a particular channel (e.g., the television wagering channel). After the user has tuned to this channel,  
10 the system may display an interactive icon on the user's television screen that indicates that the interactive wagering application is available. If the user presses an "OK" remote control key, the system may launch the application.

15 In a computer-based system, the user may access the interactive wagering application by browsing to an Internet web site or a site on a private network or by otherwise connecting to computing equipment such as computing equipment 26 of transaction processing and  
20 subscription management system 24 (FIG. 1) or other suitable computer equipment.

Systems based on cellular telephones or the like may be launched by selecting an appropriate on-screen menu option presented on the display of the  
25 cellular telephone.

Although typically only one tote company, and therefore only one tote computer (although more tote computers could also be used at a single tote company), accepts wagers for any giving wagering event  
30 occasionally more than one tote company will accept wagers for a popular event, such as the Kentucky Derby. The wagering system 10 may therefore be used to direct

wagers to any one or more of the corresponding tote computers at the tote companies.

The wagering application of system 10 may automatically select a tote company for a particular  
5   wagering event, may allow a user to select a tote company for a particular wagering event, may present corresponding odds for wagering events at an automatically selected tote or at each tote that is selected by a user, may provide account information for  
10   one or more totes, may assist in managing a wagerer's balance at multiple totes, may facilitate the use of combined pools involving more than one tote to provide a cross-tote pool, and may support other functions related to using multiple totes.

15           A tote company may be automatically selected by the interactive wagering application based on any suitable factor. For example, when a wagering event occurring in a particular state is selected by a user, the interactive wagering application may only select a  
20   tote company that is licensed to accept wagers on events in that state. If desired, the interactive wagering application may select a tote that provides better odds for a wagering selection than the odds currently available at other totes. A tote may also be  
25   selected based upon the tax consequences of a particular wagerer selecting among various tote companies. The interactive wagering application may select the tote with the largest pool value, the smallest pool value, etc. A tote may be selected based  
30   upon a bulk benefit that will be granted for providing at least a certain number of wagers or at least a certain value of wagers. If desired, a tote may be

selected based on factors such as user preference for a particular tote company, the type of wager (e.g., parimutuel vs. fixed odds) available from the totes, etc. Moreover, the interactive wagering application  
5 may select a tote based upon a combination of these factors any other suitable factors. For example, when three tote companies are available and two of the three share an attribute that make them more desirable than the remaining tote, an additional factor may be used to  
10 decide between these two desirable totes. Additional factors or criteria may be used if desired to help select a single tote at which to place wagers or to place a given wager, etc.

The interactive wagering application may  
15 allow users to manually select a tote company. For example, a user may be provided with pertinent information relating each of multiple totes that are available. The user may then select from these totes. A user may, for example, be provided with options that  
20 allow the user to select a tote based upon odds, tax consequences, pool values, a bulk benefit or any other factors.

When a user selects a desired option, the user may be presented with the relevant data for the  
25 option for each tote from which the user can select. If desired, the data for all of the options may be presented to the user in a spreadsheet or other suitable arrangement.

A combination of automatic and manual tote  
30 selection techniques may also be used. For example, the user may first apply a first factor or criteria when selecting from the available totes. The

interactive wagering application may then automatically  
apply a second factor or criteria. If desired, the  
interactive wagering application may automatically  
apply a first factor and then the user may manually  
5 apply a second factor.

In order to enable a user to determine  
whether odds for an automatically selected tote are  
acceptable (assuming the tote is selected before a  
wager is placed) or to notify a user of the odds  
10 received (assuming the tote is selected after a wager  
is placed -- in which case the user may be informed of  
minimum or average odds before placing a wager), the  
interactive wagering application may provide the odds  
for the selected tote to the user. In the case where  
15 the user may manually select one of the totes, the user  
may be presented with a list of the odds for each  
available tote.

Separate accounts may be established for the  
user at each tote with which the user desires to wager.  
20 The interactive wagering application may enable account  
information for a user with multiple tote accounts to  
be displayed on demand. The interactive wagering  
application may automatically manage the funds in the  
accounts of the users at all of the tote companies  
25 being used. With this type of arrangement, if a user  
has no funds in an account at a give tote at which the  
wagerer would like to place a wager, the system may  
automatically transfer money from a tote account at  
which the user has funds to the given tote.

30 The interactive wagering application may  
support cross-pool totals. Data for pools at each tote  
may be gathered in real time by the system. The system

may then mathematically combine the pools together to provide a cross-tote pool. The system may present cross-tote pool odds to the user. When the user places a wager the system may place proper wagers with each of the individual totes that participated in the cross-tote pool. Cross-tote pool arrangements allow users to access larger pools of wagers than if only a single tote's pool were available. Such arrangements may also be beneficial to tote companies, because they may be used to prevent users from "tote shopping" (i.e., seeking the tote with the best odds).

An illustrative menu arrangement that may be used by the user to access the interactive wagering application is shown in FIG. 3. Initially, the user may be viewing a video on the user's equipment (e.g., user television equipment 22, user computer equipment 20, or user telephone equipment 32). For example, the user may be viewing a racing-related television program on a racing-related television channel. A full-sized racing-related video 152 may be displayed on screen 154. Screen 154 may contain a menu region 156. Menu region 156 may be provided as an overlay on top of video 152, may be provided in a wrap-around arrangement surrounding video 152 in a reduced-size window, or may be displayed on screen 154 using any other suitable configuration. Menu 156 may contain a user-selectable option 158 that the user may select when the user desires to create a wager. Option 160 may be used to access race results. Option 162 may be used to access information on the user's accounts at various totes or an account associated with the provider of the interactive wagering service or the like. Handicapping

option 164 may be selected when the user desires to obtain handicapping information. Setup option 166 may be selected when the user desires to adjust settings in the interactive wagering application.

5           An illustrative screen 168 that may be provided when the user invokes the setup function of the interactive wagering application (e.g., by selecting option 166 of FIG. 3 or the like) is shown in FIG. 4. The user may use remote control arrow keys to  
10 position highlight region 169 on top of a desired option. An option may be selected by pressing a remote control OK key or the like once the desired option has been highlighted.

          Setup options screen 168 may include player  
15 setup option 170. The user may use player setup option 170 to manage functions relating to different users. For example, option 170 may be used to add a new user, to delete a user, to change passwords, etc.

          System setup option 172 may be used to  
20 configure system parameters such as equipment settings, security settings, etc.

          Track selection option 172 may be used to establish user-defined or default tracks.

          Option 176 may be used to set up default bet  
25 settings.

          Tote selection option 178 may be used to access options that allow the user to select a desired tote.

          An illustrative tote selection screen 180  
30 that may be displayed for the user when the user selects option 178 of FIG. 4 is shown in FIG. 5. Screen 180 may contain an option such as option 182

that allows the user to select a desired method for selecting a tote for placing wagers. As indicated by arrows 184, the user may select the desired tote selection method using right and left remote control  
5 arrow keys. When a desired method is displayed, the user may select that method by placing highlight region 188 on OK option 186 and pressing a remote control OK key or the like. The user may cancel the display of screen 180 by selecting cancel option 190.

10 Option 182 may be used to select any suitable tote selection method. If desired, totes may be selected based on tote name, tote location, which totes provide the best average odds or the best odds for a particular wager or wagers, which totes accept certain  
15 wagers or types of wager, or any other suitable criteria.

If the user chooses to select a desired tote by name (e.g., by selecting "name" with option 182), the interactive wagering application may display a  
20 screen such as screen 192 of FIG. 6. Screen 192 of FIG. 6 may contain a list of tote names 194. The user may select a desired tote using highlight region 196. As indicated by arrow 198, the user may scroll down to access additional tote names using a remote control  
25 down arrow key or the like. Once the user has chosen a tote, that tote may be used to handle the user's wagers. If desired, selecting a tote during setup may establish a default tote selection that may be used for all wagers until overridden by the user.

30 In the example of FIG. 6, the user was provided with a screen that allowed the user to select a desired tote by the name of the tote. Another way in

which the tote may be selected is based on average odds. An illustrative screen 200 that may be displayed for the user when the user uses an option such as option 182 of FIG. 5 to direct the interactive wagering application to allow the user to select a desired tote by the average odds is shown in FIG. 7. Screen 200 may include a list of tote names 202. Each tote may have associated odds information 204. Odds information 204 may be any suitable information on the odds provided by the corresponding tote. For example, odds information 204 may be the most recent win odds provided for a particular horse or race, the average win odds provided for all horses in all races, the average of all odds on all wager types for all races for a particular time period (e.g., the last month, etc.) or any other suitable normalized basis for making a comparison between the odds offered by one tote and the odds offered by another tote. If desired, the odds information may be a rating that is assigned to the tote by a ratings service. The rating may reflect whether the odds are viewed as good, very good, or excellent odds, etc. The user may select a desired tote based on the odds information using highlight region 205.

25           If the user desires to create a wager, the user may select an option such as create wager option 158 of FIG. 3. An illustrative track selection screen 206 that may be provided for the user when the user selects option 158 is shown in FIG. 8. Screen 206 and the other screens provided by the interactive wagering application may have a logo 207 and other information. For example, wager creation screens such as the track



selection screen of FIG. 8 and other such screens may include a "wager ticket" that represents the wager that the user is building in a way that visually resembles a printed race ticket. The user may select a desired  
5 racetrack for the user's wager by selecting an appropriate option 210 with highlight region 208.

After the user has selected a desired racetrack, the interactive wagering application may display a race selection screen to the user. An  
10 illustrative race selection screen 212 is shown in FIG. 9. Screen 212 may contain information 214 on the time until the next scheduled race. The user may select a desired race for the wager by selecting one of race options 216 using highlight region 218.

When the user has selected a race, the interactive wagering application may display a wager type selection screen such as wager type selection screen 220 of FIG. 10. Wager type selection screen may contain a number of wager type option 222. The user  
15 may select a desired wager type using highlight region 224.

The interactive wagering application may display a horse selection screen to the user after the user has selected a wager type. An illustrative horse  
25 selection screen 226 is shown in FIG. 11. The user may select one or more horses for the wager by selected desired horse option 228 using highlight region 230. If the user is creating a win wager or other wager that involves a single horse, the user may complete the  
30 horse selection process by selecting a single horse. When the user is creating a wager such as an exacta wager that requires the selection of multiple runners,

the user is required to select each of the multiple runners for the wager.

When the user has finished selecting the horses for the wager with screen 226, the interactive wagering application may present the user with a screen such as wager amount selection screen 232 of FIG. 12. Screen 232 may include options 234 from which the user may select a desired wager amount using highlight region 236.

When the user has selected the wager amount for the wager, the interactive wagering application may display a screen for the user such as wager queue screen 238 of FIG. 13. Screen 238 may contain a queue 240 of the wagers that have been created by the user but that have not yet been submitted to transaction processing and subscription management system 24. Information may be provided on the track for the wager. Information may also be provided on the race, the wager amount, the wager type, the runners, and the total cost of each wager. The user may select from various options using highlight region 242. Option 244 may be selected to send the wagers in the wager queue. Option 248 may be selected to create a new wager. The user may select view option 248 to view additional details on the wagers in the wager queue. Option 250 allows the user to duplicate a wager. Option 252 allows the user to delete a wager. When the user selects an option such as option 248, 250, or 252, the interactive wagering application may display a highlight region on the wagers in the wager queue. The user may position the highlight region using remote control arrow keys or the like to designate which wager is to be used in

performing the function associated with the selected option.

If desired, the user may be provided with an opportunity to select a desired tote for a particular  
5 wager or for the wagers in the wager queue. For example, when the user selects send option 244 of FIG. 13, the interactive wagering application may display a screen such as screen 254 of FIG. 14. Screen 254 may contain a list 256 of various available totes for the  
10 user's wager or wagers. Odds information 258 may also be provided. The user may select a desired tote based on the odds information using highlight region 260.

If the user has only one wager in the wagering queue, odds information 258 may include  
15 information on the odds for that wager at each of the different totes. This allows the user to select a tote based on which tote offers the best odds for the wager. If the user has multiple wagers in the wager queue, the odds information 258 may be a weighted average of the  
20 odds available at each tote. For example, the odds information may be an average of the odds for the user's wagers that is weighted based on the dollar amount of each wager. This is merely illustrative. Any suitable weighting arrangement may be used.

25 After the user has used highlight region 260 of FIG. 14 to select a desired tote, the interactive wagering application may submit the wagers in the user's wagering queue to transaction processing and subscription management system 24, which may then  
30 associate the placed wagers with the selected tote. If a wager is successful, the user's account at the selected tote may be credited, the selected tote may

credit the user's winnings to a central account maintained by transaction processing and subscription management system 24, or any other suitable arrangement may be used to credit the winnings to the user. If the  
5 wager is unsuccessful, the user's account at the selected tote may be debited, the user's losses may be debited from a central account maintained by transaction processing and subscription management system, or any other suitable arrangement may be used  
10 to debit the user.

If desired, the user may be presented with a screen such as screen 254 before the user is presented with screen 238 of FIG. 13 or at any other suitable time (e.g., at any suitable time after the user has  
15 created one or more wagers).

If the user has created multiple wagers, the interactive wagering application may display a screen such as screen 262 of FIG. 15. Screen 262 may be displayed, for example, after the user has selected a  
20 tote of interest using highlight region 260 of FIG. 14. Screen 262 may include information 264 that identifies the tote that the user has tentatively selected for placing the user's wagers. A list 466 of each of the user's wagers may also be provided. If desired, list  
25 466 may include information such as the information in the wager queue of FIG. 13. Odds information 468 may also be provided for each wager. Odds information 468 allows the user to evaluate the current available odds being offered by the tote indicated by information 264  
30 for each of the user's individual wagers.

If the user wishes to submit the wagers using the tote identified by information 264, the user may

select send wager option 470. If the user decides to  
select a different tote, the user may select option  
472. Option 474 may be selected when the user desires  
to cancel the display of screen 262 (e.g., to return to  
5 television viewing).

If desired, a spreadsheet-type (grid)  
arrangement or the like may be used to simultaneously  
present many of the statistics related to tote  
selection to the user. An illustrative arrangement of  
10 this type is shown in FIG. 16. In the example of FIG.  
16, screen 476 may include a list 478 of various totes  
that are available for the user's wagers. Odds  
information 480 or other suitable wager-related  
information may be presented to the user. Odds  
15 information 480 may, for example, include information  
on the current odds each tote is offering on the first  
wager in the user's wager queue.

If desired, screen 476 may include  
information 482 that relates to the tax status of each  
20 tote. Information 482 may, for example, indicate  
whether taxes (including user fees or the like) will be  
levied on the user's wager for each tote, what the tax  
rate (or fees) would be at that tote, or any other  
suitable information regarding the tax consequences of  
25 placing a wager at each tote. Information 484 may also  
be provided regarding the pool values associated with  
the various totes. The information displayed on screen  
476 is merely illustrative. Any suitable information  
may be displayed for the user to allow the user to make  
30 an informed decision regarding which tote to select.  
The user may use highlight region 486 to select a

desired tote based on the information provided in screen 476.

If desired, the interactive wagering application may automatically select a tote for the user. The interactive wagering application may automatically select the tote to satisfy the user's interests, to satisfy the interests of the provider of the interactive wagering service, etc.

Illustrative steps involved in using the interactive wagering application to automatically select a tote are shown in FIG. 17. The steps of FIG. 17 may be performed by the interactive wagering application in any suitable order. If desired, some of the steps may be eliminated or bypassed.

At step 488, the interactive wagering application may automatically select the a tote company based on licensing status. For example, if the user is located in a state in which only certain totes are licensed to accept wagers, this criteria may be used to automatically select a tote.

At step 490, the interactive wagering application may automatically select a tote based on which tote provides the most favorable odds. For example, when the user has created a wager and selected a send option such as send option 244 of FIG. 13, the interactive wagering application may automatically select a tote that has the highest odds for the wagers listed in the user's wager queue.

At step 492, the interactive wagering application may automatically select a tote based on the tax consequences associated with wagering at each tote. If, for example, two totes offer similar odds,

the interactive wagering application may choose between the two totes based on whether the user's winnings will be taxed or not, whether the taxes will be high or low, etc.

5           At step 494, the interactive wagering application may automatically select the tote based on the value of the wagering pool associated with each tote. For example, the user may automatically select a tote that has the largest pool value, that has the  
10 smallest pool value, or that satisfies any other suitable pool value criteria.

          At step 496, the interactive wagering application may automatically select a tote based upon a bulk benefit. For example, the interactive wagering  
15 application may select a tote when it is determined that a benefit will be granted (e.g., to the provider of the interactive wagering application) for providing at least a certain number of wagers or at least a certain value of wagers to that tote.

20           At step 498, the interactive wagering application may automatically select a tote based on the user's preference. For example, if the user has expressed an interest in a particular tote (e.g., by placing wagers with that tote frequently), the  
25 interactive wagering application may select that tote.

          At step 500, the interactive wagering application may automatically select a tote based on the availability of particular wager types. For example, if the user has a quinella wager in the user's  
30 wager queue, the interactive wagering application may automatically select a tote based on whether or not the tote permits quinella wagers. Totes that do not

support quinella wagers (for example) would not be selected.

If desired, the steps of FIG. 17 may be used in any suitable combination or may be used in  
5 combination with manual selection steps.

Illustrative steps involved in using an interactive wagering application that supports wagering with multiple totes are shown in FIG. 18. At step 502, the interactive wagering application may automatically  
10 select a tote or totes that are acceptable (e.g., that are acceptable for the user's wager or wagers or that are generally acceptable). Step 502 may involve automatic selection steps such as the steps of FIG. 17.

At step 504, odds and other wagering-related  
15 information for the selected tote may be presented. For example, a screen containing a list of tote names and corresponding odds information may be displayed for the user. The odds information may include averaged odds information, odds information for the user's  
20 particular wagers, etc.

If desired, the user may manually select a tote. At step 506, the user may be presented with odds information or other wagering information that is associated with particular totes. The odds information  
25 may include averaged odds information, odds information for the user's particular wagers, etc. At step 508, the interactive wagering application may provide the user with an opportunity to select a tote. For example, the user may be provided with an opportunity  
30 to select a tote for a particular wager or wagers based on information on the odds or other racing statistics for the race that are displayed at step 506.



The user may have accounts at different  
totes. At step 510, the interactive wagering  
application may be used to provide the user with  
account information for one or more of such totes. The  
5 interactive wagering application may help in  
maintaining these accounts at step 512.

At step 514, the interactive wagering  
application or other service associated with the system  
may be used to combine pools from one or more totes to  
10 provide a cross-pool total. The transaction processing  
and subscription management system 24 or other suitable  
equipment may be used to administer the combined pool.

The interactive wagering application may  
select totes automatically and separately from the user  
15 who may manually select totes. If desired, automatic  
and manual selection may be combined. The automatic  
selection and manual selection of totes may involve the  
application of certain selection criteria.

An illustrative arrangement involving both  
20 the manual and automatic application of tote selection  
criteria is shown in FIG. 19. At step 516, the  
interactive wagering application may allow the user to  
manually apply tote selection criteria. For example,  
the interactive wagering application may provide the  
25 user with an opportunity to view the odds available  
from various totes for the user's wagers and to  
highlight a given tote accordingly using a highlight  
region. At step 518, the interactive wagering  
application may automatically apply tote selection  
30 criteria. For example, if more than one tote meets the  
user's criteria for offering high odds, the interactive  
wagering application may favor one tote over the other

based on which offers a better financial arrangement (e.g., lower fees, etc.) for the provider of the interactive wagering application.

If desired, the automatic selection criteria  
5 may be applied by the interactive wagering application before the user is allowed to manually apply tote selection criteria. For example, the interactive wagering application may eliminate certain totes based on low odds before displaying tote information to the  
10 user. The automatic and manual application of tote selection criteria may be performed in any suitable order or may be performed concurrently if desired.

At step 524, the interactive wagering application may select a desired tote based the tote  
15 selection criteria that were manually and automatically applied at steps such as steps 516, 518, 520, and 522.

At step 526, the wager or wagers created by the user are submitted for processing. For example, if a particular tote has been selected, the wager may be  
20 processed by that tote in real time or may be processed by transaction processing and subscription management system 24 in real time and the accounts of the tote and the transaction processing and subscription management system 24 reconciled at a later time (e.g., once per  
25 day, etc.).

The interactive wagering application may allow the user to access account information for various totes. An illustrative screen 528 that the interactive wagering application may display for the  
30 user to provide the user with account information for multiple totes is shown in FIG. 20. Screen 528 may include a list 530 of the various totes at which the

user has an account. Screen 528 may also include account balance information 532 for each tote.

Illustrative steps involved in handling cross-tote pools and the like are shown in FIG. 21. At  
5 step 534, the interactive wagering application may receive data in real-time from each of multiple available totes. For example, each tote may provide pool information on a particular win wager. The pools  
10 may be combined at step 536 using the principles of parimutuel wagering and the like. Information on the resulting cross-tote pools may be presented to the user at the user's equipment at step 538. At step 540 the user may create a wager using the cross-tote pool. At  
15 step 542, the interactive wagering application may place individual wagers at each participating tote based on the user's wager and the contribution of each tote to the pool.

Although the screens shown when illustrating the options that may be presented to the user have  
20 sometimes been described as having been generated by a set-top box or the like, these screens may be generated by any suitable user equipment including a cable system set-top box, a satellite receiver, user computer equipment such as a notebook or handheld computer, a  
25 cellular telephone with a display, or any other suitable device.

The foregoing is merely illustrative of the principles of this invention and various modifications  
30 can be made by those skilled in the art without departing from the scope and spirit of the invention.

What Is Claimed is:

1. A method for allowing a user to use user equipment to place an electronic wager on a race with an interactive wagering application that handles wagers for multiple totes, comprising:

using the interactive wagering application to provide the user with an opportunity to create a wager; and

using the interactive wagering application to select a given one of the multiple totes to use for placing the wager.

2. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the totes comprises automatically applying tote selection criteria using the interactive wagering application.

3. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the totes comprises using the interactive wagering application to provide the user with an opportunity to manually apply tote selection criteria.

4. The method defined in claim 1 wherein the race is a horse race and the wager is a wager on a horse race.

5. The method defined in claim 1 further comprising displaying a menu region for the user that includes a setup option, wherein the user may access

tote selection features of the interactive wagering application by selecting the setup option.

6. The method defined in claim 1 further comprising using the interactive wagering application to display an option for the user that allows the user to select the type of tote selection method the user desires to use to manually select the tote for the wager.

7. The method defined in claim 1 further comprising using the interactive wagering application to display a setup option for the user that allows the user to select tote to be used by the interactive wagering application.

8. The method defined in claim 1 further comprising using the interactive wagering application to display a screen for the user that allows the user to select a desired tote by name.

9. The method defined in claim 1 further comprising displaying a screen for the user with the interactive wagering application that allows the user to view a list of available totes for wagering and odds information associated with each of those totes.

10. The method defined in claim 1 further comprising displaying a screen for the user with the interactive wagering application that allows the user to view a list of available totes for wagering and

average odds information associated with each of those totes.

11. The method defined in claim 1 further comprising displaying a screen for the user with the interactive wagering application that allows the user to view a list of available totes for wagering on the wager created by the user and average odds information associated with each of those totes.

12. The method defined in claim 1 further comprising displaying a screen for the user that allows the user to select a racetrack for the wager using a highlight region.

13. The method defined in claim 1 further comprising:

allowing the user to create a plurality of wagers; and

displaying a screen with the interactive wagering application that contains information on each of the multiple totes and that contains weighted odds information for each of the totes, wherein the weighted odds information is based on each of the plurality of wagers.

14. The method defined in claim 1 further comprising:

allowing the user to use the interactive wagering application to select the given one of the multiple totes; and

displaying a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers.

15. The method defined in claim 1 further comprising:

allowing the user to use the interactive wagering application to select the given one of the multiple totes;

displaying a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

displaying an option on the screen that allows the user to submit the wager the user has created for processing.

16. The method defined in claim 1 further comprising:

allowing the user to use the interactive wagering application to select the given one of the multiple totes;

displaying a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

displaying an option on the screen that allows the user to submit the wager to the given tote for processing.

17. The method defined in claim 1 further comprising:

allowing the user to use the interactive wagering application to select the given one of the multiple totes;

displaying a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

displaying an option on the screen that allows the user to select another tote for the wager.

18. The method defined in claim 1 further comprising displaying a screen for the user that contains a grid arrangement of information on each of the multiple totes.

19. The method defined in claim 1 further comprising displaying a screen for the user that contains information on the name of each of the multiple totes and information relating to the tax status of each tote.

20. The method defined in claim 1 further comprising displaying a screen for the user that contains information on the name of each of the multiple totes and information relating to a pool value associated with each tote.

21. The method defined in claim 1 further comprising displaying a screen for the user that contains information on the name of each of the



multiple totes and odds-related information for the wager that is associated with each tote.

22. The method defined in claim 1 further comprising displaying a screen for the user that contains information on the name of each of the multiple totes, odds-related information for the wager that is associated with each tote, and information on a pool value for the wager that is associated with each tote.

23. The method defined in claim 1 further comprising displaying a screen for the user that contains information on the name of each of the multiple totes, odds-related information for the wager that is associated with each tote, information on a pool value for the wager that is associated with each tote, and tax information related to the wager.

24. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote selection criteria that are based on the tax status of each of the multiple totes.

25. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote

selection criteria that are based on which of the multiple totes provide favorable odds.

26. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote selection criteria that are based on tax consequences associated with using each of the multiple totes.

27. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote selection criteria that are based on pool values associated with using each of the multiple totes.

28. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote selection criteria that are based on bulk benefits associated with using each of the multiple totes.

29. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive

wagering application to automatically apply tote selection criteria that are based on user preferences.

30. The method defined in claim 1 wherein using the interactive wagering application to select the given one of the multiple totes for use in placing the wager further comprises using the interactive wagering application to automatically apply tote selection criteria that are based on which wager types are available at each of the multiple totes.

31. The method defined in claim 1 further comprising using the interactive wagering application to display account information for the user for each of the multiple totes.

32. The method defined in claim 1 further comprising using the interactive wagering application to display account balance information for the user for each of the multiple totes.

33. The method defined in claim 1 further comprising using the interactive wagering application to display cross-tote pool information for the user.

34. The method defined in claim 1 further comprising using the interactive wagering application to combine pools from each of the multiple totes to create a combined cross-tote pool.

35. The method defined in claim 1 further comprising:

using the interactive wagering application to combine pools from each of the multiple totes to create a combined cross-tote pool; and

allowing the user to use the interactive wagering application to create a wager using the cross-tote pool.

36. The method defined in claim 1 wherein the user equipment includes a cellular telephone, the method further comprising using the cellular telephone to provide the user with the opportunity to create the wager.

37. The method defined in claim 1 wherein the user equipment includes a handheld computer, the method further comprising using the handheld computer to provide the user with the opportunity to create the wager.

38. The method defined in claim 1 wherein the user equipment includes a personal computer, the method further comprising using the personal computer to provide the user with the opportunity to create the wager.

39. The method defined in claim 1 wherein the user equipment includes user television equipment, the method further comprising using the user television equipment to provide the user with the opportunity to create the wager.

40. The method defined in claim 1 wherein the user equipment comprises a set-top box, the method further comprising using the set-top box to provide the user with the opportunity to create the wager.

41. The method defined in claim 1 further comprising sending the wager to a transaction processing and subscription management system over a communications path connected to the user equipment.

42. An interactive wagering system comprising user equipment that a user may use to place an electronic wager on a race with an interactive wagering application that handles wagers for multiple totes, wherein the user equipment is configured to:

provide the user with an opportunity to create a wager using the interactive wagering application; and

allow the interactive wagering application to select a given one of multiple totes to use for placing the wager.

43. The system defined in claim 42 wherein the interactive wagering application selects the given one of the totes by automatically applying tote selection criteria.

44. The system defined in claim 42 wherein the interactive wagering application is used to select the given one of the totes by providing the user with an opportunity to manually apply tote selection criteria.

45. The system defined in claim 42 wherein the race is a horse race and the wager is a wager on a horse race.

46. The system defined in claim 42 wherein the interactive wagering application displays a menu region for the user that includes a setup option and wherein the user may access tote selection features of the interactive wagering application by selecting the setup option.

47. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display an option for the user that allows the user to select the type of tote selection method the user desires to use to manually select the tote for the wager.

48. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display a setup option for the user that allows the user to select tote to be used by the interactive wagering application.

49. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display a screen for the user that allows the user to select a desired tote by name.

50. The system defined in claim 42 wherein the user equipment is configured to allow the

interactive wagering application to display a screen for the user that allows the user to view a list of available totes for wagering and odds information associated with each of those totes.

51. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display a screen for the user that allows the user to view a list of available totes for wagering and average odds information associated with each of those totes.

52. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display a screen for the user that allows the user to view a list of available totes for wagering on the wager created by the user and average odds information associated with each of those totes.

53. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to display a screen for the user that allows the user to select a racetrack for the wager using a highlight region.

54. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to:

be used by the user to create a plurality of wagers; and

display a screen that contains information on each of the multiple totes and that contains weighted odds information for each of the totes, wherein the weighted odds information is based on each of the plurality of wagers.

55. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to:

be used by the user to select the given one of the multiple totes; and

display a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers.

56. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to:

be used by the user to select the given one of the multiple totes;

display a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

display an option on the screen that allows the user to submit the wager for processing.

57. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to:



be used by the user to select the given one of the multiple totes;

display a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

display an option on the screen that allows the user to submit the wager to the given tote for processing.

58. The system defined in claim 42 wherein the user equipment is configured to allow the interactive wagering application to:

be used by the user to select the given one of the multiple totes; and

display a screen for the user that contains a list of wagers and information on the current odds available at the given tote for each of the wagers; and

display an option on the screen that allows the user to select another tote for the wager.

59. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains a grid arrangement of information on each of the multiple totes.

60. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains information on the name of each of the multiple totes and information relating to the tax status of each tote.

61. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains information on the name of each of the multiple totes and information relating to a pool value associated with each tote.

62. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains information on the name of each of the multiple totes and odds-related information for the wager that is associated with each tote.

63. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains information on the name of each of the multiple totes, odds-related information for the wager that is associated with each tote, and information on a pool value for the wager that is associated with each tote.

64. The system defined in claim 42 wherein the user equipment is configured to display a screen for the user that contains information on the name of each of the multiple totes, odds-related information for the wager that is associated with each tote, information on a pool value for the wager that is associated with each tote, and tax information related to the wager.

65. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply

tote selection criteria that are based on the tax status of each of the multiple totes.

66. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply tote selection criteria that are based on which of the multiple totes provide favorable odds.

67. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply tote selection criteria that are based on tax consequences associated with using each of the multiple totes.

68. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply tote selection criteria that are based on pool values associated with using each of the multiple totes.

69. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply tote selection criteria that are based on bulk benefits associated with using each of the multiple totes.

70. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply

tote selection criteria that are based on user preferences.

71. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to automatically apply tote selection criteria that are based on which wager types are available at each of the multiple totes.

72. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to display account information for the user for each of the multiple totes.

73. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to display account balance information for the user for each of the multiple totes.

74. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to display cross-tote pool information for the user.

75. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to combine pools from each of the multiple totes to create a combined cross-tote pool.

76. The system defined in claim 42 wherein the user equipment is further configured to allow the interactive wagering application to:

combine pools from each of the multiple totes to create a combined cross-tote pool; and

be used to create a wager using the cross-tote pool.

77. The system defined in claim 42 wherein the user equipment includes a cellular telephone that is used to create the wager.

78. The system defined in claim 42 wherein the user equipment includes a handheld computer that is used to create the wager.

79. The system defined in claim 42 wherein the user equipment includes a personal computer that is used to create the wager.

80. The system defined in claim 42 wherein the user equipment includes user television equipment that is used to create the wager.

81. The system defined in claim 42 further comprising a set-top box that is used to create the wager.

82. The system defined in claim 42 wherein the user equipment is further configured to send the wager to a transaction processing and subscription

management system over a communications path connected to the user equipment.

1. The system of claim 1, wherein the management system is a network management system.

Abstract of the Disclosure

A interactive wagering system is provided in which a user at user equipment may place electronic wagers with an interactive wagering application. The wagers may be horse race wagers. The interactive wagering application may handle wagers placed at multiple totalisators. The user may be provided with an opportunity to select a desired totalisator at which to place wagers or the interactive wagering application may automatically apply tote selection criteria to determine which of the multiple totalisators wagers are to be placed with. The user may review information on available odds and other information for each of the different totalisators. Automatic totalisator selection may be based on odds, tax consequences, licensing status, pool values, bulk benefits, user preference, available wager types, or other suitable criteria.

10

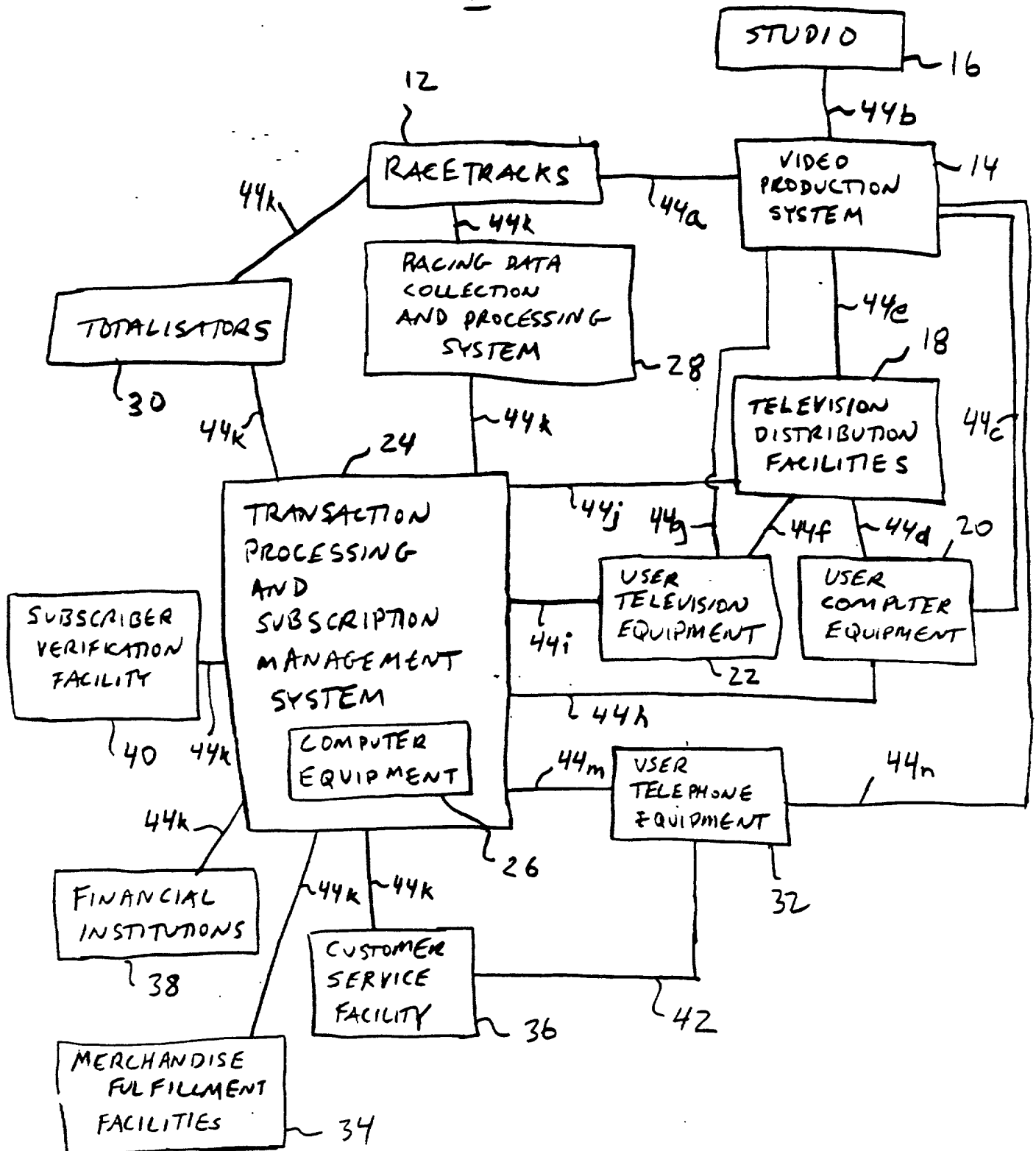


FIG. 1



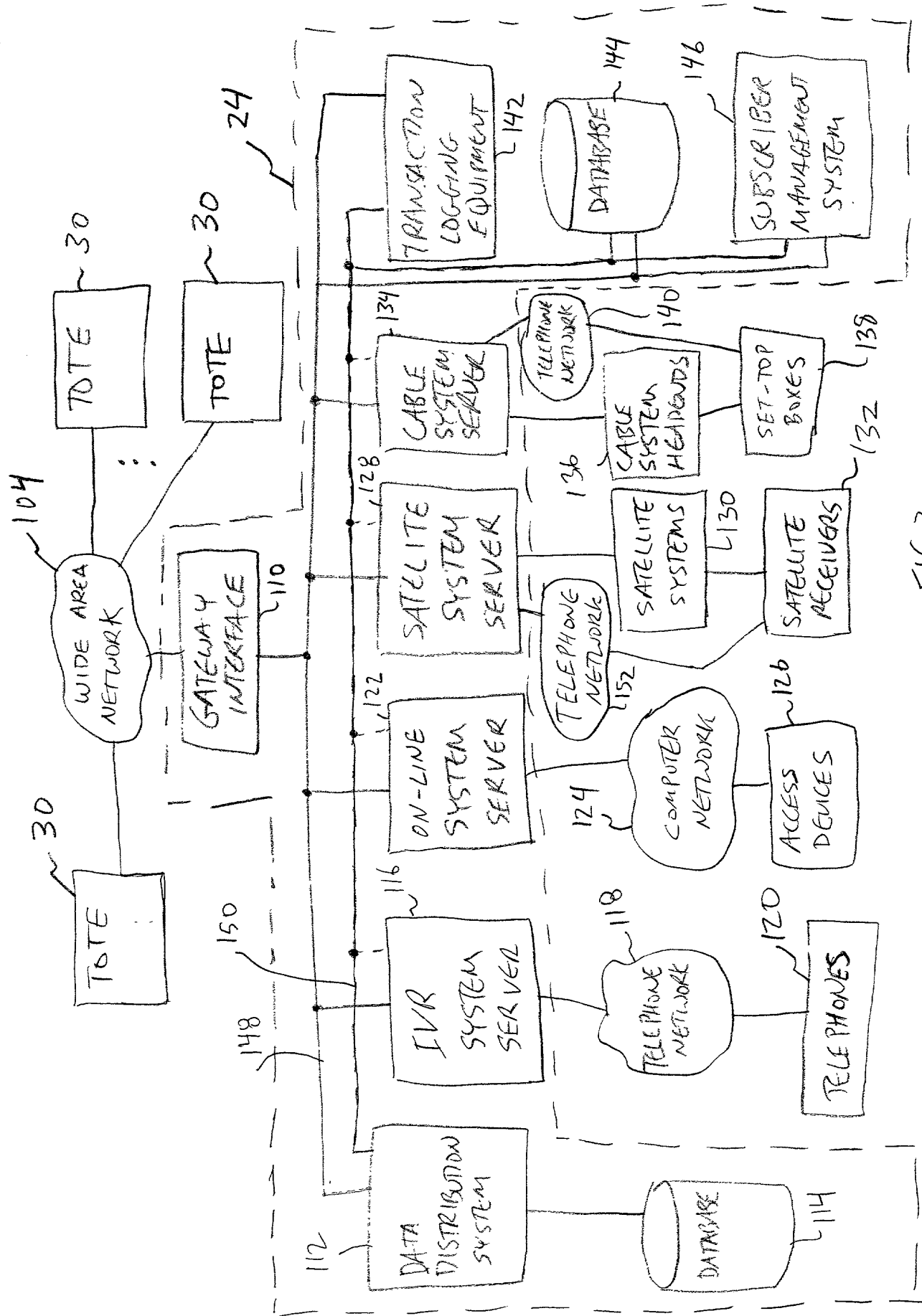


FIG. 2

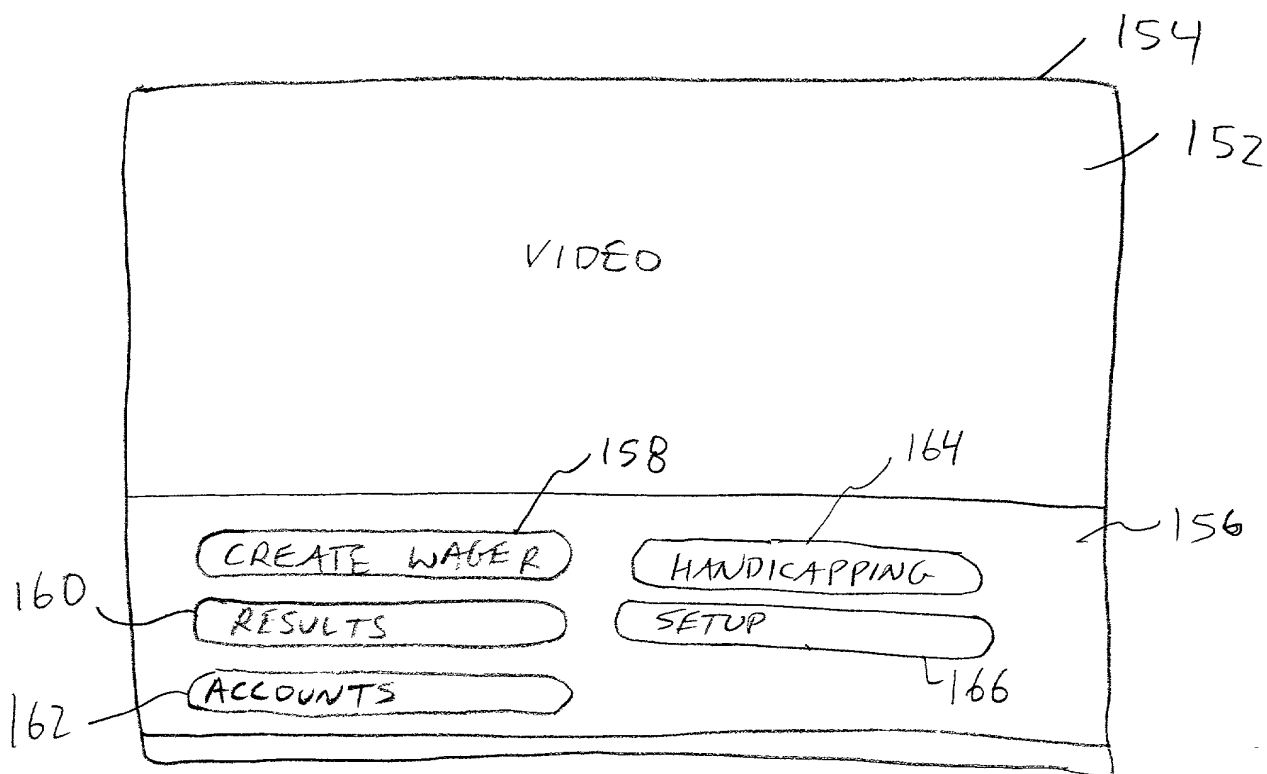


FIG. 3

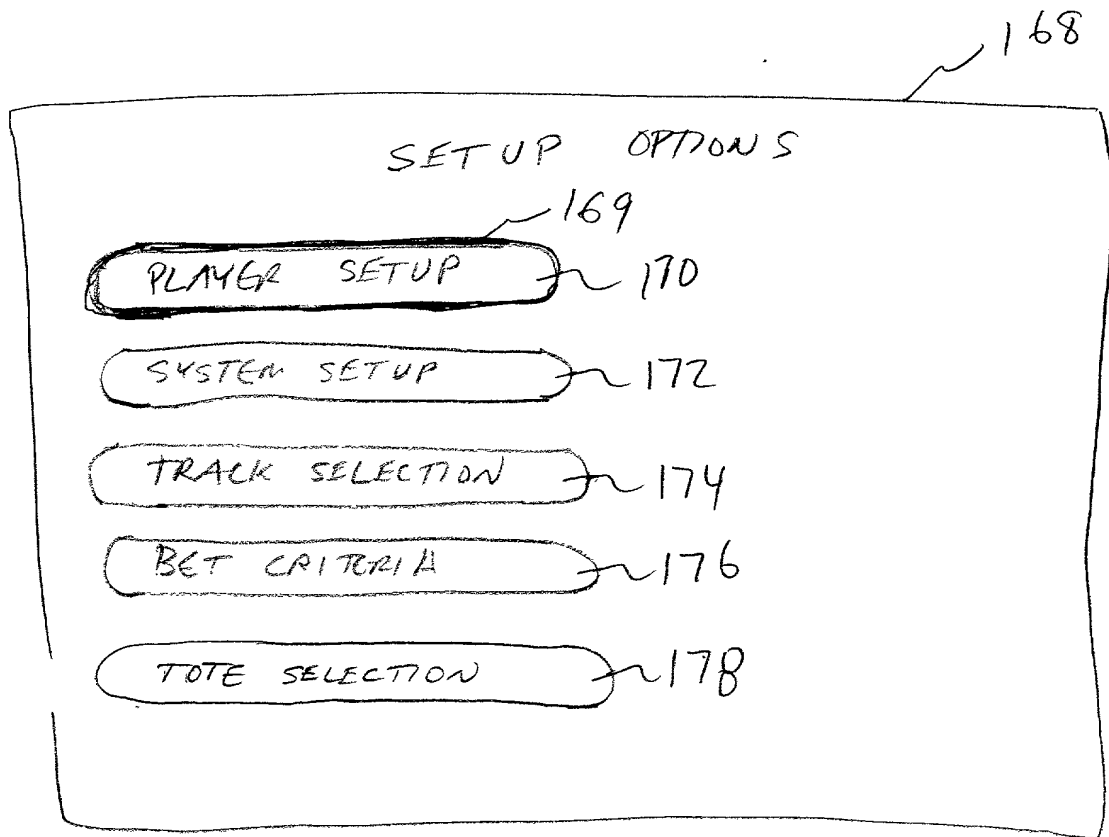


FIG. 4

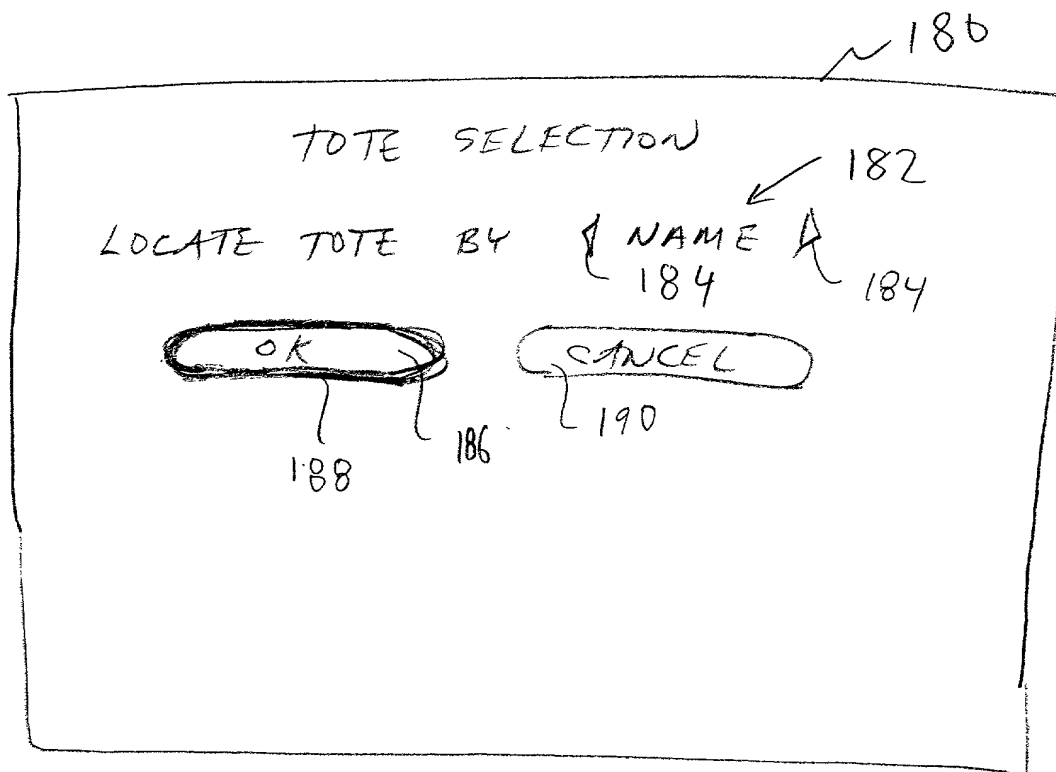


FIG. 5

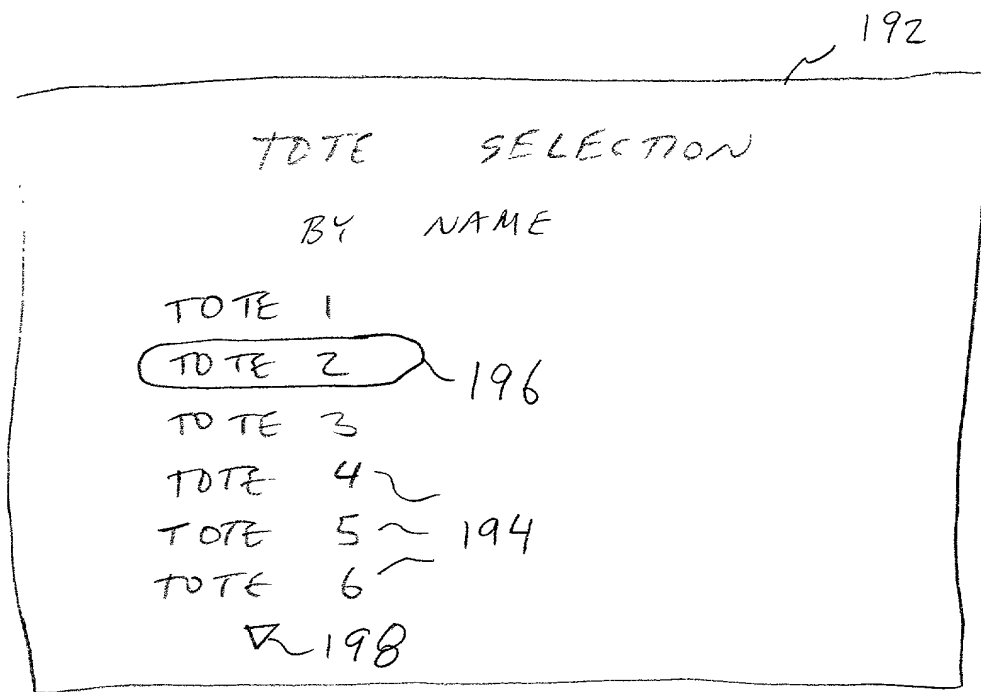


FIG. 6

~ 200

TOTE SELECTION BY AVERAGE ODDS	
<u>TOTE</u>	<u>AVERAGE ODDS</u>
TOTE 1	7:1
TOTE 2	8:1 ~ 205
TOTE 3	7.5:1
TOTE 4	7:1
	~ 204

202 ↗

FIG. 7

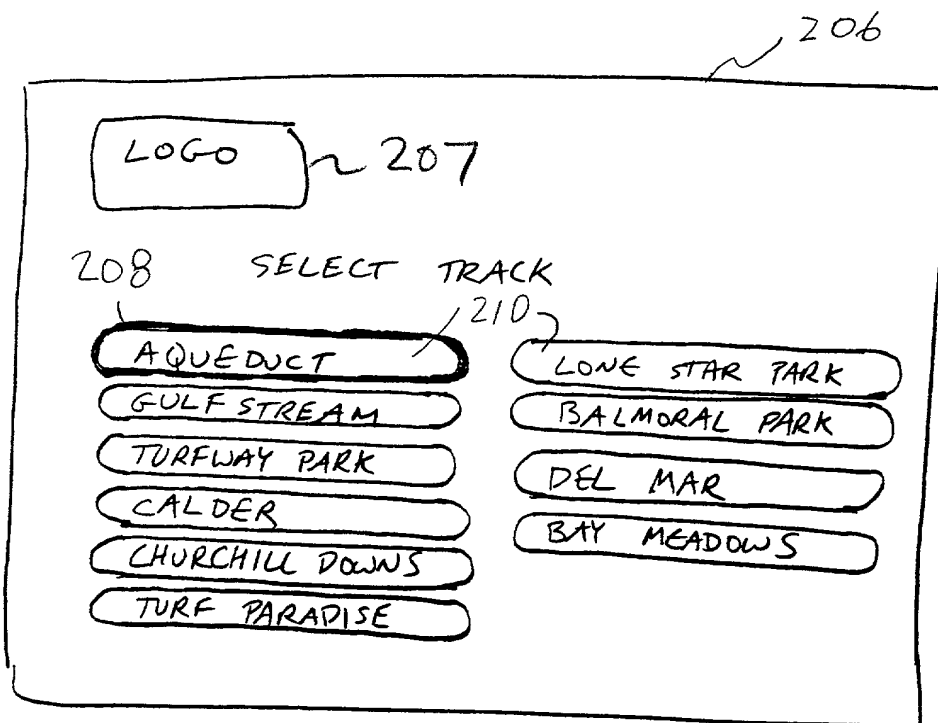


FIG. 8

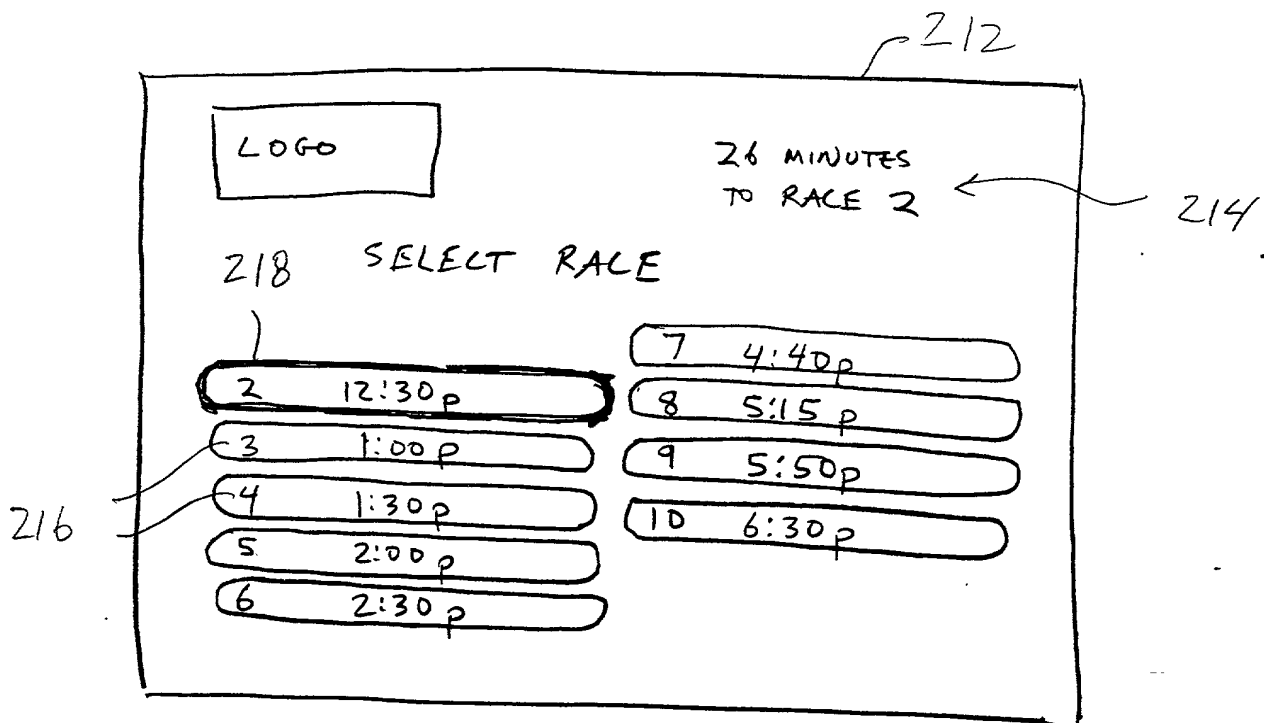


FIG. 9



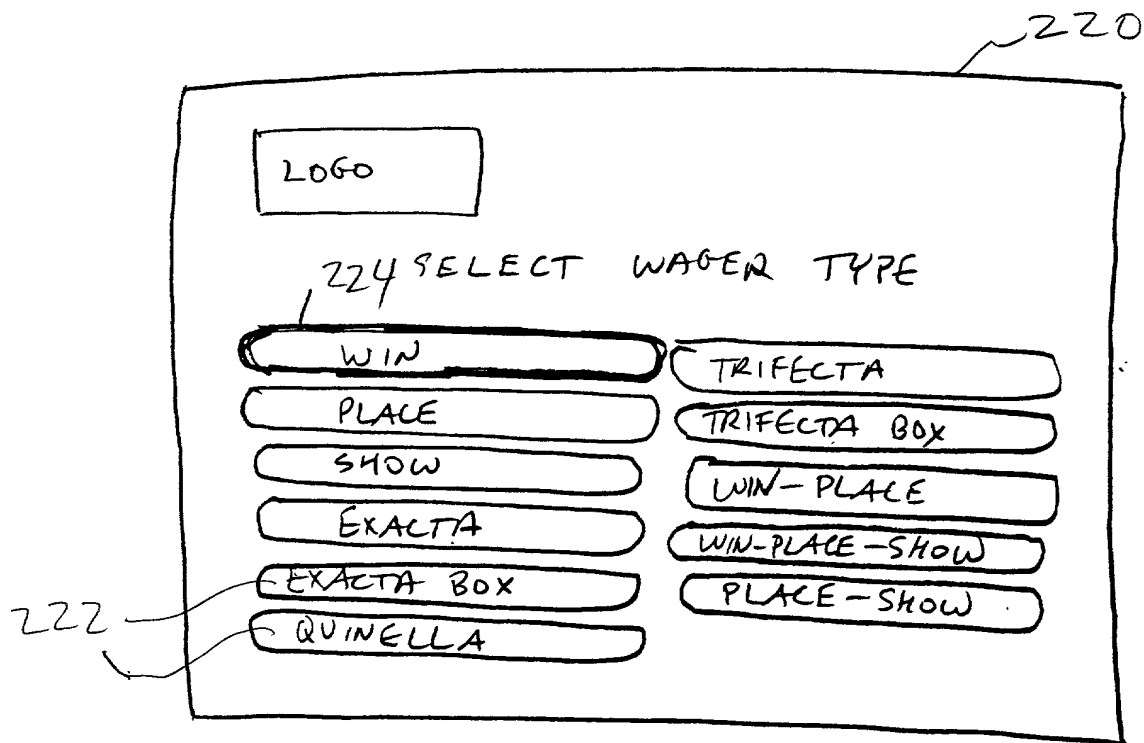


FIG. 10

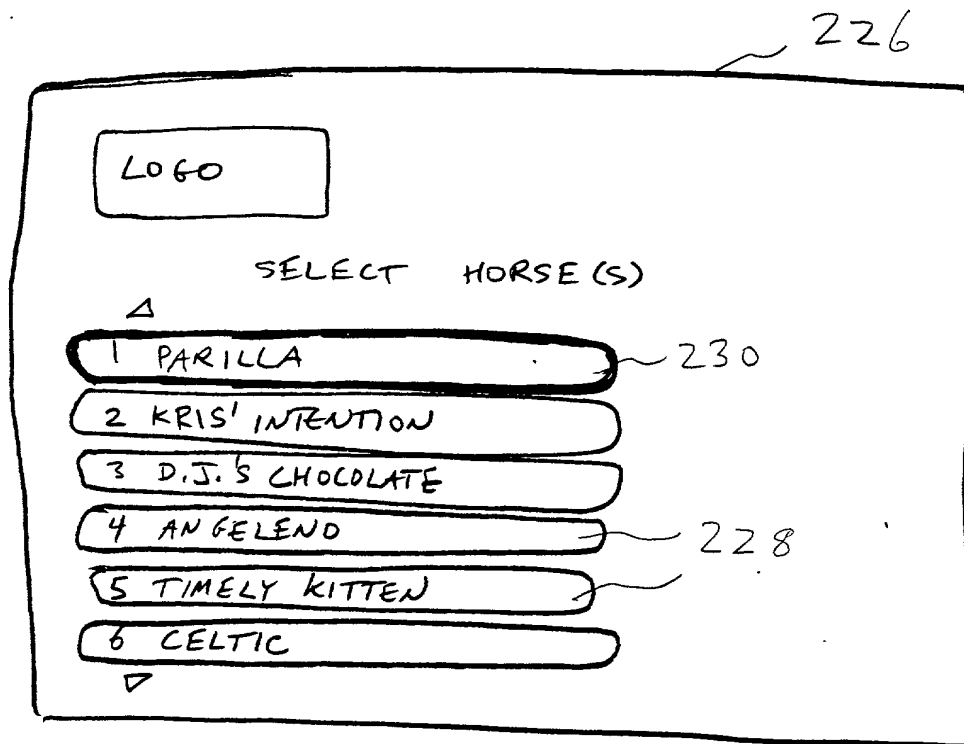


FIG. 11

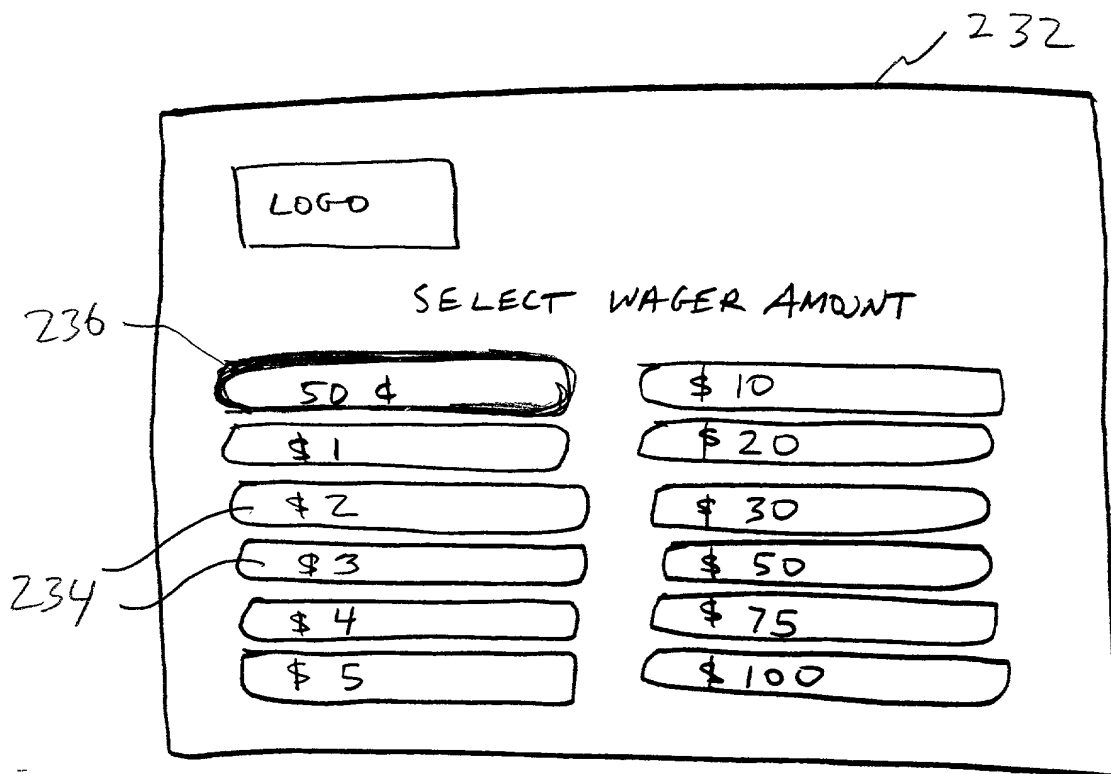


FIG. 12

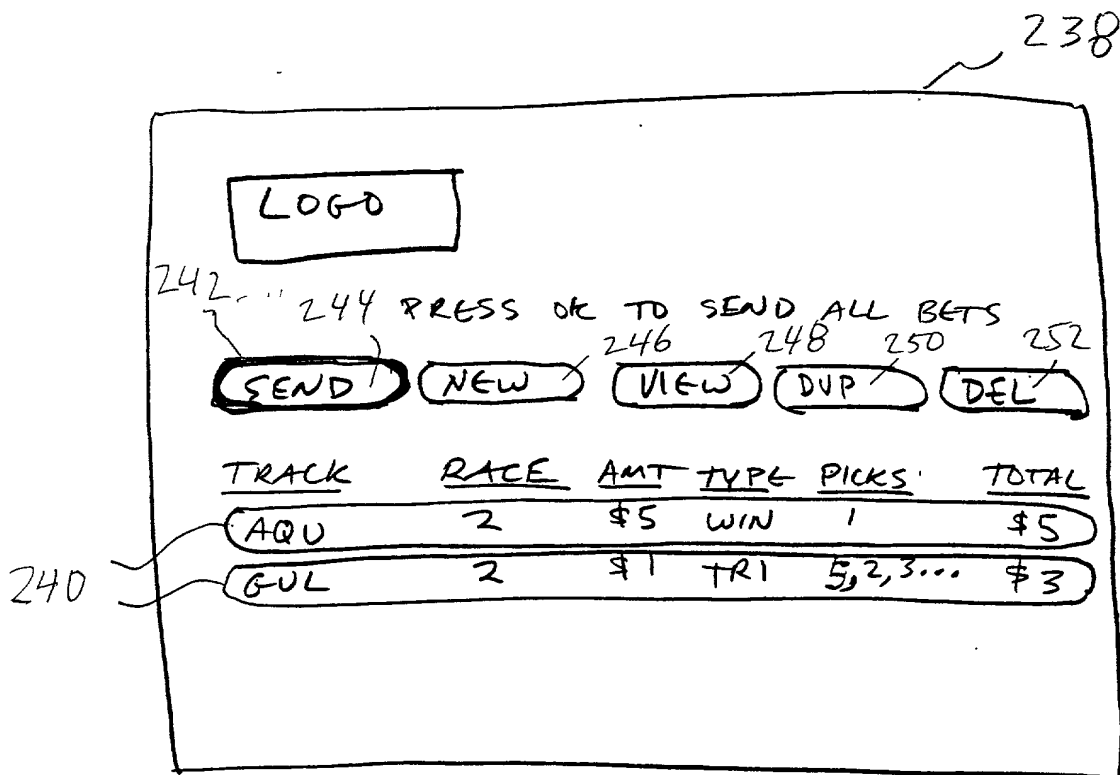


FIG. 13

254

SELECT TOTE FOR YOUR WAGER	
<u>NAME</u>	<u>WEIGHTED ODDS FOR YOUR WAGERS</u>
TOTE 1	5:1
TOTE 2	4:1
TOTE 3	6:1 ~ 260
TOTE 4	4:1
256 ↗	↖ 258

FIG. 14

262

ODDS FOR YOUR WAGERS  
AT TOTE 2 ← 264

<u>WAGER NO.</u>	<u>ODDS</u>
1	5:1
466 → 2	6:2 ← 468
3	4:1
4	12:1
5	4:3

470

472

SEND WAGER

SELECT NEW TOTE

CANCEL 474

FIG. 15

476

SELECT TOTE FOR YOUR WAGER

<u>NAME</u>	<u>ODDS</u>	<u>TAX</u>	<u>POOL VALUE</u>
TOTE 1	5:1	Y	VALUE 1
TOTE 2	4:1	Y	VALUE 2
TOTE 3	6:1	Y	VALUE 3
TOTE 4	4:1	N	VALUE 4
TOTE 5	5:1	N	VALUE 5

↗ 478      ↗ 480      ↗ 482      ↗ 484

486

FIG. 16

SELECT TOTE COMPANY  
BASED ON LICENSING  
STATUS IN STATE IN  
WHICH WAGER IS PLACED

~488

SELECT TOTE BASED ON  
WHICH TOTE PROVIDES  
FAVORABLE ODDS

~490

SELECT TOTE BASED UPON  
TAX CONSEQUENCES

~492

SELECT TOTE THAT HAS  
LARGEST POOL VALUE, SMALLEST  
POOL VALUE, ETC.

~494

SELECT TOTE BASED UPON A BULK  
BENEFIT

~496

SELECT TOTE BASED ON  
WAGERER PREFERENCE

~498

SELECT TOTE BASED UPON  
WAGER TYPES AVAILABLE

~500

FIG. 17



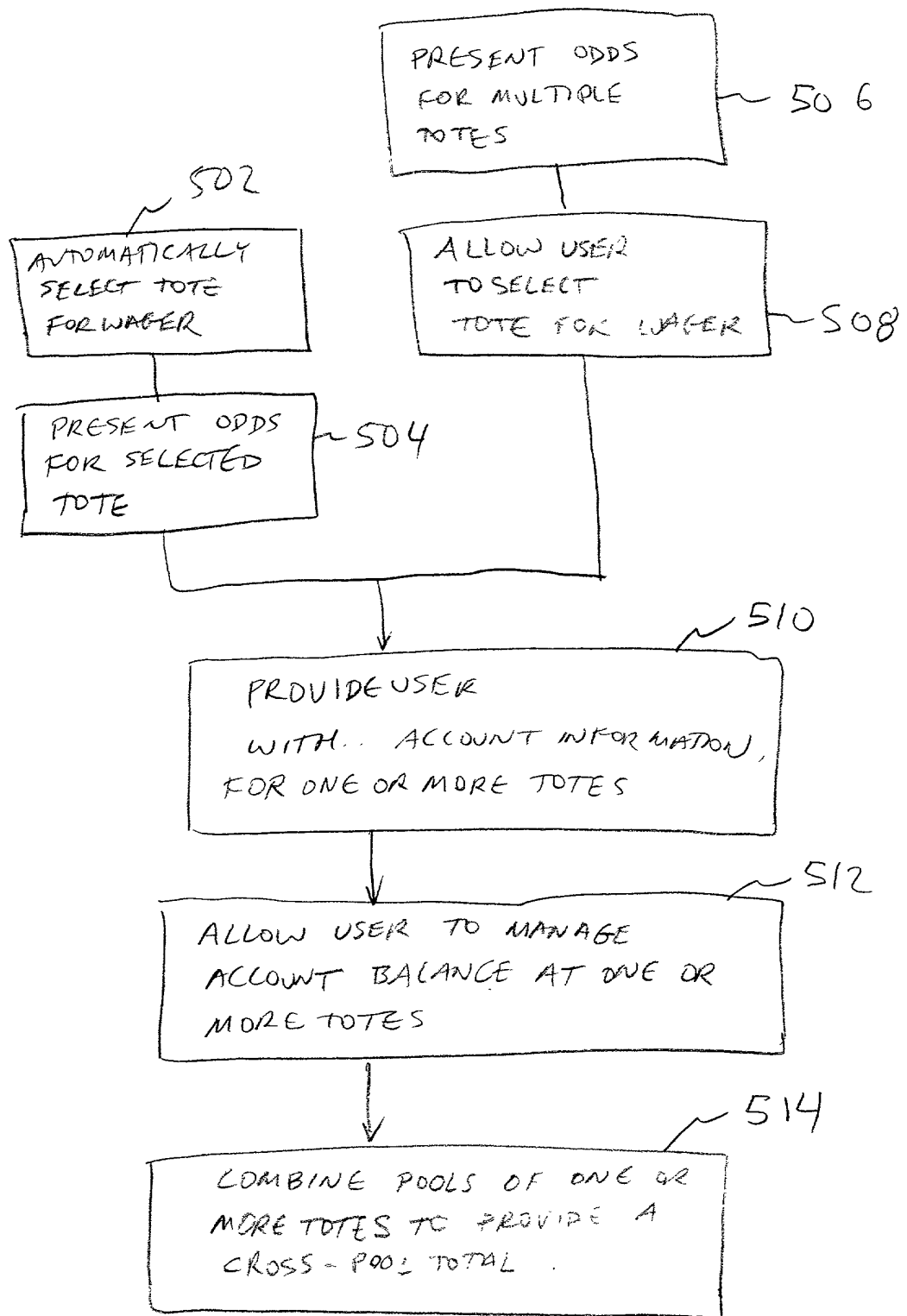


FIG. 18

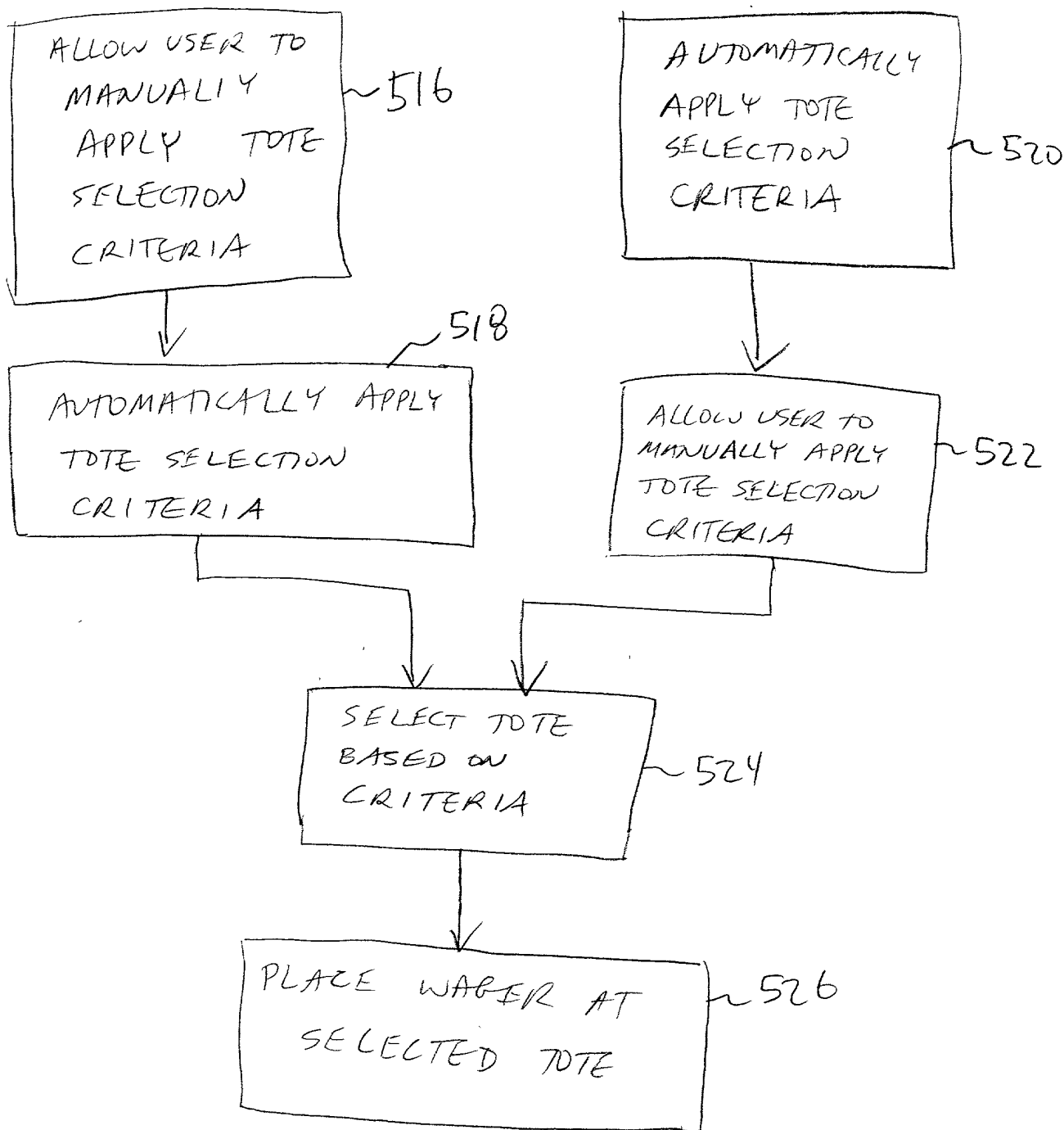


FIG. 19

528

# ACCOUNT INFORMATION

<u>TOTE</u>	<u>ACCOUNT BALANCE</u>
TOTE 1	\$ 125.00
TOTE 2	\$ 842.10
TOTE 3	\$ 2492.05
TOTE 4	\$ 47.32

↑  
530

↑ 532

F16.20

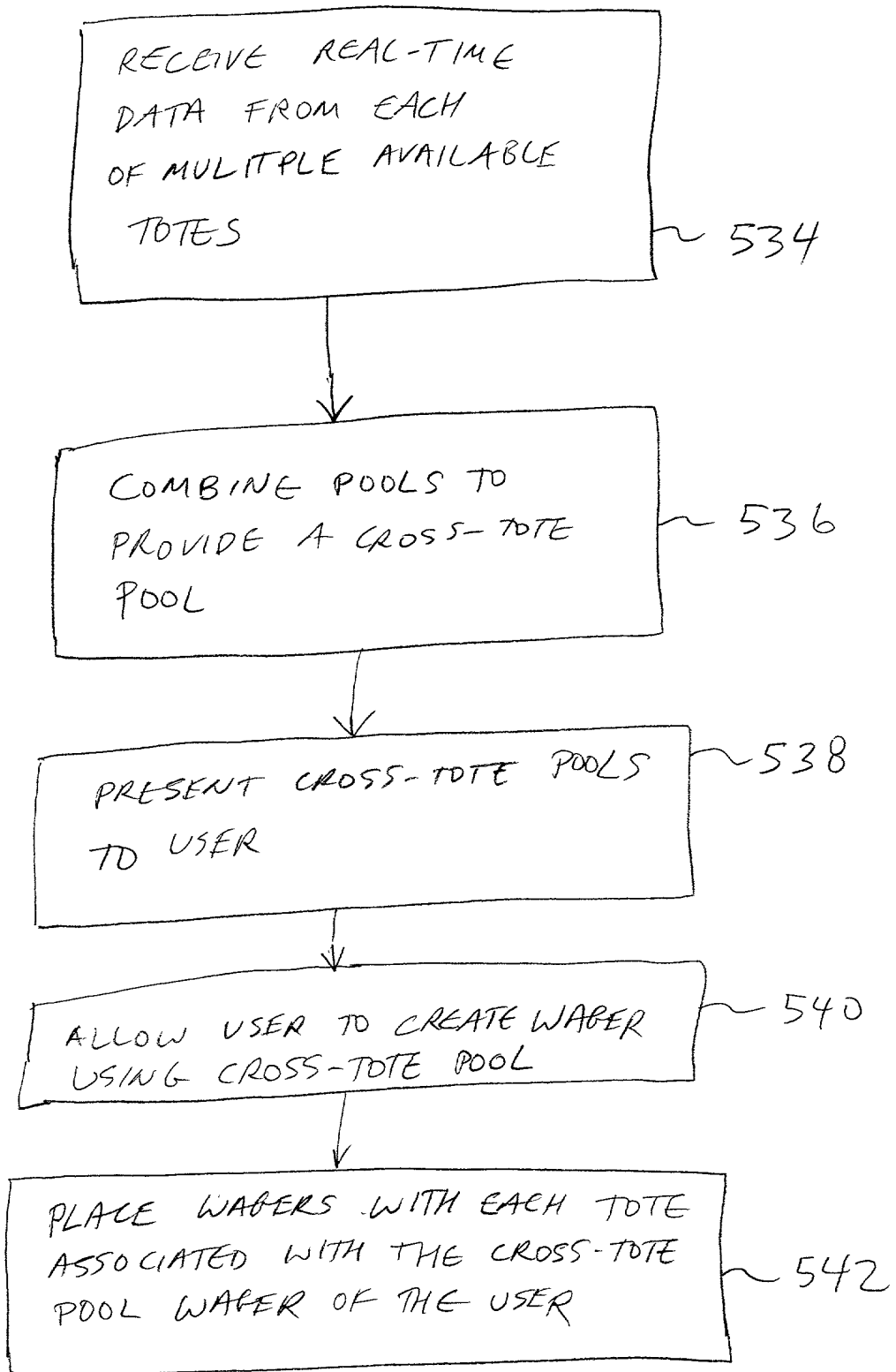


FIG. 21

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am an original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INTERACTIVE WAGERING SYSTEM WITH TOTALISATOR SELECTION

the specification of which

☒ is attached hereto

☐ was filed on \_\_\_\_\_ as  
Application Serial No. \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I do not know and do not believe that the invention was ever patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application.

I do not know and do not believe that the invention was in public use or on sale in the United States of America more than one year prior to this application.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known by me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having

a filing date before that of the application on which  
priority is claimed:

Prior Foreign Application(s)

Priority  
Claimed

<u>(Number)</u>	<u>(Country)</u>	<u>(Filing Date)</u>	<u>[ ] [ ]</u> Yes No
-----------------	------------------	----------------------	--------------------------

I hereby claim the benefit under Title 35, United  
States Code § 119(e) of any United States provisional  
application(s) listed below.

<u>60/194,800</u>	<u>April 5, 2000</u>
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under Title 35, United  
States Code, § 120 of any United States application(s)  
listed below and, insofar as the subject matter of each  
of the claims of this application is not disclosed in  
the prior United States application in the manner  
provided by the first paragraph of Title 35, United  
States Code, § 112, I acknowledge the duty to disclose  
to the United States Patent and Trademark Office all  
information known by me to be material to patentability  
as defined in Title 37, Code of Federal Regulations,  
§ 1.56 which became available between the filing date  
of the prior application and the national or PCT  
international filing date of this application:

<u>(Application</u>	<u>(Filing Date)</u>	<u>(Status) (patented,</u>
<u>Serial No.)</u>		<u>pending, abandoned)</u>

As a named inventor, I hereby appoint the following  
attorneys or agents to prosecute this application and  
transact all business in the United States Patent and  
Trademark Office connected therewith:

<u>Margaret A. Pierri, Reg. No. 30,709</u>
<u>Matthew T. Byrne, Reg. No. 40,934</u>
<u>James A. Leiz, Reg. No. 46,109</u>

Send correspondence to: James A. Leiz  
FISH & NEAVE  
1251 Avenue of the Americas  
New York, New York 10020-1104

Direct telephone calls to: James A. Leiz  
(212) 596-9000

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor Richard E. McNutt

First inventor's signature

Richard E. McNutt Sep 19, 2000  
Date

Residence 712 Knob Court, Lafayette, Colorado  
80026

Citizenship United States

Post Office Address 712 Knob Court, Lafayette, Colorado  
80026

Full name of second inventor Masood Garahi

Second inventor's signature

Masood Garahi Sep 29, 2000  
Date

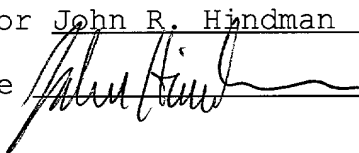
Residence 2802 North Torreys Peak Drive, Superior,  
Colorado 80027

Citizenship United States

Post Office Address 2802 North Torreys Peak Drive,  
Superior, Colorado 80027

Full name of third inventor John R. Hindman

Third inventor's signature



8/27/00  
Date

Residence 1441 Midvale Avenue, Apt. 107, Los Angeles,  
California 90024

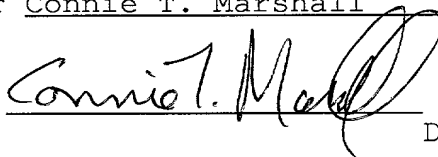
Citizenship United States

Post Office Address 1441 Midvale Avenue, Apt. 107,  
Los Angeles, California 90024

*RJW*

Full name of fourth inventor Connie T. Marshall

Fourth inventor's signature



10-3-00  
Date

Residence 2991 S. Woodland Road, Muskogee, Oklahoma  
74401

Citizenship United States

Post Office Address 2991 S. Woodland Road, Muskogee,  
Oklahoma 74401

Full name of fifth inventor Douglas V. Ramsey

Fifth inventor's signature



8/17/00  
Date

Residence 2034 Buchanan Point, Lousiville, Colorado  
80027

Citizenship United States

Post Office Address 2034 Buchanan Point, Lousiville,  
Colorado 80027



Full name of sixth inventor William L. Thomas

Sixth inventor's signature William L. Thomas 10/2/00  
Date

Residence 11611 South 70<sup>th</sup> East Avenue, Bixby, Oklahoma  
74008

Citizenship United States

Post Office Address 11611 South 70<sup>th</sup> East Avenue, Bixby,  
Oklahoma 74008